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A I R W E A T H E R S E R V I C E P A M P H L E T

BIBLIOGRAPHY OF DOCUMENTS

Prepared By Or Published By
HEADQUARTERS AIR WEATHER SERVICE

JULY 1945 - APRIL 1962



30 APRIL 1962

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UNITED STATES AIR FORCE

285 597

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AS AD NO.

285 597

Headquarters
AIR WEATHER SERVICE (MATS)
Scott Air Force Base, Illinois
30 April 1962

BIBLIOGRAPHY OF DOCUMENTS PREPARED BY OR PUBLISHED BY
HEADQUARTERS AIR WEATHER SERVICE
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PURPOSE: This pamphlet is issued to inform AWS and other U.S. military activities of the primarily technical documents, informal publications and serial publications prepared in or issued by the staff of Headquarters Air Weather Service.

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EXPLANATION

The AAF Weather Service was established on 1 July 1945, inheriting the functions of the former Weather Division of Headquarters AAF and the AAF Weather Wing. In July 1946 the title was changed to Air Weather Service.

The publications of this headquarters have included several standard numbered series: Manuals, Technical Reports, Special Studies, Historical Studies, Bulletins, Bibliographies, Training Guides, Pamphlets, Letters, and Regulations. The latter two series are not indexed herein, because of their primarily administrative character. In addition, there have been informal recurring serial publications, consisting of Newsletters and Digests, Climatic Methods File, Technical Memos, etc.; in this category the issues from the Personnel, Inspector, and Materiel staff sections are not indexed here because of their primarily administrative nature. Certain numbers of the series listed herein are also non-technical but are included in order to show the complete record of the series.

Many non-serial informal publications are listed as well as published letters of the Commander, when these are of interest to the technical development of the AWS. Finally, a number of typescript staff studies and reports retained in the files of the headquarters are included.

The publications in stock at Hq AWS are prefixed by a "+". Other publications are in some cases available to Defense activities and contractors from ASTIA, as indicated by an AD or ATI number in parentheses. A few of the publications can be purchased by the public in microfilm or photostat from the Office of Technical Services (OTS), Department of Commerce, Washington, D. C.; these cases are indicated by a PB number in parentheses; however, since 1 July 1961 most AWS Manuals and Technical Reports sent to ASTIA have become available through OTS by special arrangement with ASTIA.

Items suffixed with an asterisk are currently on file in Hq AWS. Certain unpublished items on file were prepared for internal AWS use only and cannot be consulted by non-AWS personnel without permission of the staff section concerned.

An extract of Part C, "List of AWS Technical Reports," is published separately for wider dissemination than permissible for this Pamphlet as a whole, and will be issued more frequently in order to keep it up to date. The official indexing of currently-in-force AWS standard publications (AWS Manuals, AWS Pamphlets, AWS Regulations) is contained in AWS Regulations of the O-series. The listings of these types of publications in this Pamphlet are for convenience only and to show rescinded items.

The numbered series of publications which are still being issued are grouped in Sections B-J, and series which are no longer issued are in Sections K-S. The fact that the latter series, as such, are obsolete does not necessarily mean that the information contained in them is all obsolete. Certain issues in the obsolete series have been redesignated into one or other of the current series, and hence are listed twice. Rescinded publications of directive nature, such as certain AWS Manuals, have been removed from files of all AWS activities except the technical reference file of Hq AWS, Scientific Services. Other rescinded publications may still have some technical value but are considered either no longer operationally required or superseded by later publications.

The miscellaneous group, Section A, includes papers prepared by personnel while assigned to Hq AWS but published by other agencies. However, such papers resulting from thesis work in Universities are generally omitted. The listings in Section A are known to be otherwise incomplete and it is planned to amplify it in addendums or later editions of this Pamphlet.

LIST OF HEADQUARTERS AIR WEATHER SERVICE PUBLICATIONS AND
TECHNICAL DOCUMENTS (1945-April 1962)SECTION A: MISCELLANEOUS (Non-Serial)

(Note: These are not available for distribution unless preceded by "+".)

1945Item No.

1. "Weather Plotting Charts of the Army Air Forces," June 1945, 74 pp. (Lithopr)*
2. "Weather Electronics Information," 1945, 29 pp. (Mimeogr) *
3. "Some Comments, Especially as to Typhoon Origin Based on the Daily Synoptic Series, Historical Weather Maps Southwest Pacific, Sea Level," by C. E. Deppermann, July 1945, 7 pp. (Mimeogr) *
4. "Altimetry Navigator," by G. Benton, 1945, 13 pp. (Multi) *
5. "Standing Operating Procedure for Radar Storm Detection Stations," Weather Service Memo No. 55-27, 16 July 1945, 23 pp. (Mimeogr) plus figs., table. *
6. "Complete List of 90 Siberian Stations, with Climatological Study," [prepared by Maj Bristol and Maj Fawbush, for AAF Weather Service, 1945], circa August 1945, 64 pp. *
7. "Weather," AAF Exposition, Paris, Aug-Sep 1945, text, photos, news clippings.*
8. "Some Meteorological Aspects of the Greenland Ice Cap," by Capt Herbert G. Dorsey, Jr. (Published in Journ. of Met., Vol. 2, No. 3, September 1945, pp. 135-142) *
9. "Evaluation of Sferics," Summary of Answers from 98 Principal Users of Atlantic Sferics Network Data, September 1945, 11 pp. (Mimeogr) *
10. "Manual for Logging and Coding Aircraft Weather Accident and Damage Reports," November 1945, 51 pp. (Typescr) *
11. "A Generalization of the Thermal Wind Equation to Arbitrary Horizontal Flow," by Capt George E. Forsythe. (Published in Bull. Amer. Met. Soc., Vol. 26, No. 9, November 1945, pp. 371-375) *
12. "Simplified Constant Pressure Analysis and Forecasting for Field Stations," December 1945, 7 pp. (Mimeogr) *
13. "The Intertropical Convergence Zone of the Eastern Pacific Region (I)," by Maj Leo Alpert. (Published in Bull. Amer. Met. Soc., Vol. 26, No. 10, December 1945, pp. 426-432) *
14. "List of AAF Radiosonde Installations," December 1945, 9 pp. (Lithopr) *

SECTION A (Cont'd)

1946

Item No.

1. "Comparison of Lower-Cloud Bases With Condensation Levels," by Maj Robert C. Bundgaard. (Published in Bull. Amer. Met. Soc., Vol. 27, No. 1, January 1946, pp. 1-5) *
2. "Forecasting Cloudiness, Precipitation, and Thunderstorms Using Isotherm Patterns," by S. Berkowitz, and A. W. Goodwin, circa 1946, 5 pp. (Typescr)*
3. "Radiosonde Observation Computation Tables and Diagrams," circa 1946, 137 pp. (Lithopr) *
4. "Relief Models and Cross Section Weather Displays for Training and Briefing," circa 1946 (photos) *
5. "Research and Development Activities of the Air Weather Service During 1946," 4 pp. (Typescr) *
6. "The Intertropical Convergence Zone of the Eastern Pacific Region," by Maj Leo Alpert. (Published in Bull. Amer. Met. Soc., Vol. 27, No. 1, January 1946, pp. 15-29, and Vol. 27, No. 2, February 1946, pp. 62-66) *
7. "Shortest Time of Flight Between Two Specific Points With a Given Wind Velocity Field," 24 April 1946, 2 pp. (Typescr) *
8. "A Project on Thunderstorm Microstructure," by Horace Byers, Col B. G. Holzman, and Commander R. H. Maynard. (Published in Bull. Amer. Met. Soc., Vol. 27, No. 4, April 1946, pp. 143-146) *
9. "War-Time Developments in Aircraft Weather Reconnaissance," by Capt G. E. Forsythe. (Published in Bull. Amer. Met. Soc., Vol. 27, No. 4, April 1946, pp. 160-163) *
10. "Notes on the Weather and Climate of Seymour Island, Galapagos," by Maj Leo Alpert. (Published in Bull. Amer. Met. Soc., Vol. 27, No. 5, May 1946, pp. 200-209) *
11. "The Accuracy of Upper Air Observations as a Statistical Problem," by Capt R. A. Porter, May 1946, 17 pp. (Typescr) *
12. "A Spurious Correlation Coefficient Resulting From Grouping of Data," by N. E. Manos, June 1946, 9 pp. (Typescr) *
13. "Synoptic Meteorology of the Eastern Pacific Equatorial Region," by Maj Leo Alpert, June 1946, 5 pp. (Mimeogr) *
14. "Synoptic Climatology," by Woodrow C. Jacobs. (Published in Bull. Amer. Met. Soc., Vol. 27, No. 6, June 1946, pp. 306-311) *
15. "Invasion Study of the Tacoma-Olympia and Southern California Areas," prepared by AWS, Air Transport Command, August 1946, 25 pp. (Ditto) *
16. "Ballistic Winds," 21 August 1946, 14 pp. (Typescr) plus fig. *
17. "Discussion of Steam Fog Over Lake Michigan in Winter," by Woodrow C. Jacobs. (Published in Trans. Amer. Geophys. Un., Vol. 27, No. IV, August 1946, pp. 577-581) *
18. "Weather Over the Tropical Eastern Pacific Ocean, 7-8 March 1943," by Maj Leo Alpert. (Published in Bull. Amer. Met. Soc., Vol. 27, No. 7, September 1946, pp. 384-398) *

SECTION A (Cont'd)1946 (Cont'd)Item No.

19. "Operation of Weather Instruments in the Arctic," 3 September 1946, 9 pp. (Typescr) *
20. "An Indirect Method of Obtaining Fog Frequencies for Interior Florida," by I. Solomon, 1946 (revision of WD Rept 611). (Published in Bull. Amer. Met. Soc., Vol. 27, No. 8, October 1946, pp. 467-470) *
21. "Weather Forecasting," [Capt] Herbert B. Brooks. (Reprinted from Electronics, October 1946, 4 pp.) *
22. "AAF Hurricane Reconnaissance, Western Pacific, 1945," by Lt Col N. H. Chavasse. (Published in Bull. Amer. Met. Soc., Vol. 27, No. 9, November 1946, pp. 510-518) *
23. "Meteorological Equipment," 4 December 1946, 18 pp. (Multi) *
24. "Meteorological Planning for 'Dreamboat II'," December 1946, 65 pp. (Typescr) plus maps. *
25. "Atmospheric Cross-Sections of the Stratus Zone of the Tropical Eastern Pacific Ocean," by Maj Leo Alpert. (Published in Trans. Amer. Geophys. Un., Vol. 27, No. 6, December 1946, pp. 800-813) *
26. "AAF Meteorological Research on the Alaskan-Aleutian Area," by Capt. O. N. Serbein, Jr., 1946, 14 pp. (Typescr) *
27. "Investigation of the Methods Practiced by the Research Institute for Long-Range Weather-Development Forecasting, Bad Homburg vor der Höhe, Germany," revised by Maj R. A. Jones, 1946, 21 pp. (Typescr) *
28. "The Analysis of Horizontal Divergence in the Free Atmosphere," by Col B. G. Holzman and Maj R. C. Bundgaard, presented at the 27th Annual Meeting of the AGU, Washington D.C., 1946, 15 pp. plus figs. (Multi) * (Published in Trans. Amer. Geophys. Un., Vol. 27, No. 6, December 1946, pp. 784-799) *
29. "List of Meteorological Equipment Research Projects, Current and Contemplated, of Interest to Air Weather Service," circa 1946, 58 pp. (Typescr) *

1947Item No.

1. "Results of the Air Weather Service Frontal Analysis Numerical Scoring Program," by Maj Leo Alpert. (Published in Bull. Amer. Met. Soc., Vol. 28, No. 1, January 1947, pp. 29-36) *
2. "Single Heading Flight Planning," Part I, 6 January 1947, 89 pp. (Mimeogr) plus fig. charts. *
3. "Meteorological Monographs," by Brig Gen Don N. Yates. (Published in Bull. Amer. Met. Soc., Vol. 28, No. 2, February 1947, pp. 107-108) *
4. "The Minimal Flight Path," March 1947, 45 pp. (Ditto) plus fig. *
5. "The Estimated Meteorological and Physical Properties of the Upper Atmosphere," by C. N. Touart, circa 1947, 29 pp. (Typescr) plus diagrams. *
6. "Gust Loading on Surfaces of High Performance," 1st Ind. to AMC, 1947, 3 pp. (Typescr) *

SECTION A (Cont'd)1947 (Cont'd)Item No.

7. "A New Method of Weather Prediction," circa 1947, 4 pp. (Mimeogr) *
8. "Solar Eclipse Expedition to Brazil," 1947, 13 pp. (Mimeogr) *
9. "Meteorological Aspects of Recent Long-Range Army Flight," by Maj Delmar L. Crowson. (Published in Bull. Amer. Met. Soc., Vol. 28, No. 5, May 1947, pp. 220-227) *
10. "Weather Research Contract Case History," 1947, 106 pp. (Typescr) *
11. "The Effect of Wind on Rockets," by D. T. Perkins, August 1947, 35 pp. incl. figs. tables. (Mimeogr) * (Revised and published in AWS Bulletin, No. 2, 15 January 1948)
12. "Wartime Developments in Applied Climatology," by Woodrow C. Jacobs. (Published in Meteorological Monographs, Vol. 1, No. 1, August 1947) *
13. "Program presented by Air Weather Service, USAF, 4 October 1947," 11 pp. incl. illus. (Lithopr) *
14. "Handbook for Minimal Flight Planning," November 1947, 15 pp. (Multi) *
 Contents: Chapter I "Discussion of Single Grid Heading and Minimal Flight Path Procedures."
 Chapter II "Procedure for Finding the Single Grid Heading Flight Path."
 Chapter III "Correction for Tailwind Shear."
 Appendix I Table of Sines.
15. "Preliminary Reports [Letters] on Operation Highjump," by Capt Charles H. Harrison, AWS Observer Aboard the U.S.S. Mt. Olympus:
 - 14 December 1946, 4 pp. (Typescr) *
 - 28 December 1946, 8 pp. (Typescr) *
 - 11 January 1947, 4 pp. (Typescr) *
 - 25 January 1947, 5 pp. (Typescr) *
 - 8 February 1947, 3 pp. (Typescr) *
 - 22 February 1947, 2 pp. (Typescr) *
 - 8 March 1947, 2 pp. (Typescr) *
 - 22 March 1947, 2 pp. (Typescr) *
 - 5 April 1947, 2 pp. (Typescr) *

1948Item No.

1. "The Science of Snow and Avalanches," Lecture by Paul Niggli at the Meeting of the Section of Geology and Mineralogy, N. Y. Academy of Sciences, 5 January 1948, 17 pp. (Mimeogr) * (Repr. from Trans. N.Y. Acad. Sci., 1948)
2. "Setting of Altimeters," 8 January 1948, 15 pp. (Multi) *
3. "A One-Year Cumulative Frequency-Distribution of the Height Gradient of the 850-mb Constant Pressure Surface Over North Central U.S.," 1946. (Published in Bull. Amer. Met. Soc., Vol. 29, No. 4, April 1948, p. 202) *
4. "Symposium on Practical Problems of Modern Weather Forecasting," 'Remarks' by Maj O. J. Njus, 16 October 1947. (Published in Bull. Amer. Met. Soc., Vol. 29, No. 4, April 1948, p. 165) *

SECTION A (Cont'd)1948 (Cont'd)Item No.

5. "A Proposed Method of Aircraft Altimetry," January 1948 (Mimeogr)
(Published by Radio Technical Commission for Aeronautics, Special Committee 31, Paper 27-48/D012, "Air Traffic Control," 12 May 1948.)
6. "Machine Methods of Weather Statistics," June 1948, 59 pp. (Mimeogr) plus illus. *
7. "Weather Control," 1948, 8 pp. (Typescr) plus chart. *
8. "Weather Control," circa 1948, 7 pp. (Typescr) *
9. "Synoptic Map Plotting Equipment," circa 1948, 6 pp. (Typescr) plus diagrams *
10. "The Constant Height Levels in Terms of the Height and Temperatures at the Constant Pressure Levels," circa 1948, 8 pp. (Photostat) plus tables. *
11. "Machine Methods of Weather Tabulation," (Unabridged ed.) New Orleans, 1948, 125 pp. (Mimeogr) *
12. "Conversion Tables for Converting Percentages Into Number of Days per Month," circa 1948, 17 pp. (Lithopr) *
13. "Report of Oceanographic Participation in the U.S. Navy Survey of Hamilton Inlet, Labrador, 15 June - 20 July 1948," by Maj A. R. Gordon, Jr., 23 pp. (Typescr) plus figs. tables. *
14. "AWS Projects Summary - Index," 1 July 1948, 22 pp. (Mimeogr) *
15. "Forecasting by Statistical and Synoptic Extrapolation," I. "The Method of Statistical Extrapolation," by Maj R. C. Bundgaard, Union Géodésique et Géophysique Internationale, Huitième assemblée générale, Oslo, Norvege, Aout 1948. Procès-verbaux des sciences de l'association de météorologie. Extrait. Uccle, Belgique, pp. 59-60. *
16. "The Air Weather Service," a film treatment for the U.S. Force, Project No. 19,029, by Pathescope Productions, N.Y., August 1948, 18 pp. (Typescr) *
17. "The Theory and Computation of Single Heading Flight," by Irving I. Gringorton, 29 July 1948, 25 pp. (Typescr) plus figs. (Published in Bull. Amer. Met. Soc., Vol. 29, No. 7, September 1948, pp. 343-351) *
18. "Activity Report for September 1948 (Thunderstorm Project)," 2 October 1948, 2 pp. (Typescr) *
19. "A Technique for a Synoptic-Climatological Study of an Air Route," by N. E. Manos and W. L. Molo. (Published in Bull. Amer. Met. Soc., Vol. 29, No. 8, October 1948, pp. 401-407) *

1949Item No.

1. "Instruction Manual for Coding Ice Reports," (Preliminary edition) 1 January 1949, 15 pp. (Mimeogr) *
2. "Instruction Manual for Coding Snow Reports," (Revised) January 1949, 19 pp. (Mimeogr) *
3. "International Aerological Days," January 1949, 4 pp. (Typescr) *

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1949 (Cont'd)

Item No.

4. "Dimensional Units Employed in Non-Coded Communications," 24 January 1949, 2 pp. (Typescr) *
5. "Cloud Observations from Rockets," by Maj Delmar L. Crowson. (Published in Bull. Amer. Met. Soc., Vol. 30, No. 1, January 1949, pp. 17-22) *
6. "Light, Darkness and Polar War," by [Lt Col] Oliver K. Jones, 1948. (Published in Air Univ. Quarterly Review, January 1949, pp. 48-57) *
7. "The Seven-Day Forecasting Method," by Edwin B. Fawcett, April 1949, 68 pp. (Ozalid) *
8. "Forecasting Tornadoes," by Maj E. J. Fawbush, April 1949, 5 pp. (Typescr) *
9. "On the Use of Winds in Flight Planning," by Kenneth J. Arrow, May 1947. (Published in Journ. of Met., Vol. 6, No. 2, April 1949, pp. 150-159) *
10. "SOP for Radar Storm Detection," Weather Service Letter 55-25, 6 May 1949, 23 pp. (Mimeogr) * (Supersedes WSL 55-25, November 1948)
11. "Associations Between the Vorticity of the Large-Scale Air Currents and the Occurrence of Subsidence and Convection," by Sverre Petterssen. (Published in Bull. Amer. Met. Soc., Vol. 30, No. 4, May 1949, pp. 191-192) *
12. "Changes in the General Circulation Associated With the Recent Climatic Variation," by Sverre Petterssen. (Published in Geografiska Annaler, 1949, pp. 212-221) *
13. "On the Dynamic Stability of Air Currents and the Sensitivity of the Wind Field Relative to Pressure Variations," by Sverre Petterssen and D. T. Perkins, 36 pp. (Mimeogr) *
14. "A Summary of Principles Underlying Extended Forecasting From Long Waves in the Westerlies Aloft," by Maj R. C. Bundgaard, 9 May 1949, 13 pp. (Mimeogr) *
15. "Southeastern Regional Study, Preliminary Results of Research Project," circa 1949, 10 pp. (Ditto) * (See also AWSTR 105-82) (ATI 122474)
16. "An Investigation of the Variations in Wind Velocity Between 20,000 and 40,000 Feet," by Lt Jack H. Fox, May 1949, 5 pp. (Typescr) attachments. *
17. "File of Documents on Hellonephoscope Service Test Program, 1945 through 1949." *
18. "The Air Weather Service Sferics Operations in the Caribbean Area," by M/Sgt Howard F. Willey, 3 August 1948. (Published in Trans. Amer. Geophys. Un., Vol. 30, No. 3, June 1949, pp. 330-332) *
19. "Distribution of Instability Weather Types with Respect to Summer Cold Fronts in the United States," by Milo J. Andre. (Published in Bull. Amer. Met. Soc., Vol. 30, No. 6, June 1949, pp. 228-230) *
20. "High Level Wind-Forecast Verification," (First Report) July 1949, 15 pp. (Mimeogr) *
21. "Vertical Wind Variation Through the Jet Stream," by Lt Col G. F. Taylor, 16 August 1949, 1 p. (Typescr) with attachment. *
22. Summary: "A Simple Method of Obtaining the Relative Humidity from the Temperature-Dew-Point Spread," by H. S. Appleman, 31 August 1949, 3 pp. (Typescr) *

SECTION A (Cont'd)

1949 (Cont'd)Item No.

23. "The Energy Acquired by the Atmosphere Over the Oceans Through Condensation and Through Heating from the Sea Surface," by Woodrow C. Jacobs, January 1949. (Published in Journ. of Met., Vol. 6, No. 4, August 1949, pp. 266-272) *
24. "Getting Acquainted With the Herlofson Diagram," by Lt Col G. F. Taylor, 12 September 1949, 10 pp. (Mimeogr) *
25. "Three Reports on a Coordinated Investigation of Snow Properties in Relation to Weather," prepared in 1942-3 by Brooklyn Polytechnic Inst., under ORSD contract. Reprinted by Hq AWS, September 1949. *
Contents:
 "Measurements of Snow Properties in August 1942."
 "Investigation of Snow Properties During October 1942 on Columbia Ice Fields."
 "Snow and Weather Observations in Camp Hale, February-May 1943." -
26. "Punch Card Data," circa 1949, 30 pp. (Mimeogr) *
27. "Instruction Manual for Using the Check List for Aerial Ice Observations," (AIRIC), November 1949, 9 pp. (Mimeogr) plus list. *
28. "High-Level Wind Verification," (Second Report), December 1949, 26 pp. incl. tables. (Mimeogr) *
29. "On the Variability of Upper Winds at Eniwetok, Marshall Islands," by Maj Delmar L. Crowson. (Published in Bull. Amer. Met. Soc., Vol. 30, No. 10, December 1949, pp. 347-351) *

1950Item No.

1. "On the Accuracy of Pressure-Height-Forecasts," by D. T. Perkins, 1950, 5 pp. plus table, graphs. (Photostat) (AD-129101) *
2. "Climatic Conditions in Portrex War-Game-Area (Feb-Mar)," by Military Climatology Division, February 1950, 28 pp. (Typescr) *
3. "Some Aspects of the General Circulation of the Atmosphere," by Sverre Petterssen. (Published in Centenary Proc. of the Roy. Met. Soc., 1950, pp. 120-155) *
4. "A Note on the Individual Changes in the Thickness of Isobaric Layers," by Maj R. C. Bundgaard. (Published in Centenary Proc. of the Roy. Met. Soc., 1950, pp. 113-117) *
5. "Minimal Flight Theory," by Maj D. G. W. Williams, circa 1950, 15 pp. (Mimeogr) *
6. "Standards of Temperature and Gravity for Reduction of Barometric Readings," Memo for AWS DSS/Director, from AWS DSS/Geophysical Requirements Division, by V. S. Hardin, 14 April 1950, 3 pp. (Typescr) with 7 attachments. *
7. "A Study on a Method of Improving Forecasting Proficiency," by Maj E. J. Cartwright, 26 April 1950, 3 pp. (Typescr) with attachments. *
8. "Hail," by Robert G. Stone, 25 July 1950, 8 pp. (Typescr) * (Published in Flying Safety, 1950)

SECTION A (Cont'd)

1950 (Cont'd)

Item No.

9. "Climatic Analysis of a North Atlantic Ferrying Route," August 1950, 14 pp. (Multi) *
10. "On the Solutions of the Equations of Motion for Linear Fields," by D. T. Perkins, Revised March 1950. (Published in Journ. of Met., Vol. 7, No. 4, August 1950, pp. 291-303) *
11. "Some Inter-Relationships of Snow and Ice Conditions and Weather in the Arctic," by Maj A. R. Gordon, Jr., and Capt W. C. Woodworth. (Published in Bull. Amer. Met. Soc., Vol. 31, No. 8, October 1950, pp. 271-278) *
12. "Weather Conditions on a Northern and a Central Pacific Air Route," October 1950, 9 pp. plus figs. (Multi) *
13. "Summary of Arctic Weather Conditions," 1950, 9 pp. (Typescr) *
14. "Variation of Pressure, Temperature, Wind and Humidity of the Atmosphere at Levels 50,000 to 200,000 Feet," 1950, 5 pp. (Typescr) *
15. "Provisional Instructions to the Staffs of the Radio and Meteorological Stations in Greenland in How to Take Ice Observations," [1950], 6 pp. (AD-141043) *
16. "Specified Temperature Areas and Upper-Air Eighty Percent Design Tempagrams for the Northern Hemisphere," October 1950, 19 pp. incl. charts. (ATI-123677) *
17. "The Meteorology of Atmospheric Optics in the Arctic," 1950, 23 pp. (Typescr) plus charts, figs., tables. *

1951

Item No.

1. "The Stability Properties of Large Scale Atmospheric Disturbances," by R. Fjortoft, 8-20 January 1951, 32 pp. (Mimeogr) *
2. "A Procedure of Short-Range Weather Forecasting," by Lt Col R. C. Bundgaard. Reprinted from the Compendium of Meteorology, pp. 766-795, 1951. *
3. "The Relation of the Frequency and Intensity of Gusts to Atmospheric Turbulence," January 1951, 28 pp. incl. illus. table. (AD-56718) (Declassified 4 January 1955)
4. "Comparison of the Suthons and Sverdrup Methods of Forecasting Sea and Swell," by Maj A. R. Gordon, 27 January 1951, 12 pp. (Typescr) *
5. "Numerical Methods of Weather Prognosis," by Lt Col R. C. Bundgaard, February 1951, 12 pp. (Typescr) *
6. "The Technique of Lapse-Rate Analysis," (Revised) by CWO A. W. Weston, March 1951, 53 pp. (Mimeogr) *
7. "Staff Study on Upper Air Equipment Requirements," Memo for Chief of Staff, Air Weather Service, From: DSS [V. S. Hardin], 20 March 1951, 6 pp. (Typescr) plus Tabs A through L. *
8. "Air Force Hurricane Liaison Officers' Manual," 1951, 12 pp. (Mimeogr) *

SECTION A (Cont'd)1951 (Cont'd)Item No.

9. "Routine Summary of Surface Weather Observations at Rantoul, Illinois, Chanute AFB, for the period Aug 1936 through Dec 1950," prepared by Climatology, Data Control Div., New Orleans, 1951, 69 pp. (Lithopr) *
10. "On the Maintenance of the Aleutian Low," by Sverre Petterssen, circa 1951, 4 pp. (Mimeogr) *
11. "The Origin and Detection of Hurricanes," by Maj N. M. Burgner. (Published in Weatherwise, Vol. 4, No. 4, August 1951, pp. 75-78) *
12. "(U) Climatic Factors Affecting Aerial Photo-Reconnaissance," 28 August 1951 (SECRET)
13. "The Synoptic Determination of Geostrophic and Gradient Wind Speeds," by Lt Col R. C. Bundgaard, October 1951, 8 pp. (Multi) *
14. "Surface Map Analysis in Polar Regions," by T. Bergeron. Abstract from Dynamic Meteorology and Weather Forecasting, by Lt Col R. C. Bundgaard, 6 November 1951, 4 pp. (Mimeogr) plus diagrams. *
15. "The General Circulation of the Lower Atmosphere," by Sverre Petterssen. (Published in Trans. of N. Y. Acad. of Sci., Series II, Vol. 14, 1951, pp. 113-119) *
16. "Refraction of Sound Study," by Maj B. Walker, DSS/EDD, 1951, 23 pp. (Typescr) diagram. *
17. "The Development and Motion of Typhoon 'Doris' 1950," by George P. Cressman. (Published in Bull. Amer. Met. Soc., Vol. 32, No. 9, November 1951, pp. 326-333) *
18. "Differential Relations Between Quantities Projected from Meteorological Surfaces," by D. T. Perkins and [Maj] A. F. Gustafson, August 1951. (Published in Journ. of Met., Vol. 8, No. 6, December 1951, pp. 418-421) *

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1. "Local Objective Forecast Methods Symposium," by Lt Col R. C. Bundgaard, 23 January 1952, 16 pp. (Mimeogr) *
2. "A Simplified Method of Determining Geostrophic Wind Spacing of Contours," by P. E. Wasko. (Published in Bull. Amer. Met. Soc., Vol. 33, No. 1, January 1952, p. 12) *
3. "(U) Status of All Equipment Under Development for the Air Weather Service," 1 February 1952. (CONFIDENTIAL) *
4. "Cirrus," by R. D. Fletcher, and Capt J. Doyne Sartor. (Published in Weatherwise, Vol. 5, No. 1, February 1952, pp. 8-9) *
5. "The Effect of Natural Shading on Temperature Measurements," by Maj P. M. Floyd, Jr. (Published in Weatherwise, Vol. 5, No. 1, February 1952, pp. 16-17) *
6. "Probabilities From Limited Weather Data," by William C. Spreen and Nicholas E. Manos. (Published in Trans. Amer. Geophys. Un., Vol. 33, No. 1, February 1952, pp. 21-26) *

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7. "Preliminary Instructions for Installation of Radar Set AN/CPS-9," 15 April 1952, 24 pp. (Multi) plus photos. *
8. "Air Weather Service in 'Exercise Longhorn'," April 1952, 17 pp. incl. illus. (Lithopr) *
9. "The Response of Balloons to the Wind," by D. T. Perkins (Typescr) 10 pp. 1951. (Published in Bull. Amer. Met. Soc., Vol. 33, No. 4, April 1952, pp. 135-139) *
10. "Preliminary Technical Information on Airborne Dewpoint Hygrometer," by Directorate of Materiel, 25 April 1952, 11 pp. (Mimeogr) *
11. "A Brief on Evaluation and Development Division Projects," by Lt Col R. C. Bundgaard, 29 May 1952, 9 pp. (Ozalid) *
12. "An Evaluation of the Analogue Method of Forecasting Forty-Eight Hour Temperature Forecasts, Noon Temperature-Maximum Temperature, Minimum Temperature," 1952, 58 pp. (Photostat) *
13. "A Hypothesis for Atmospheric Heating and Its Consequences in Terms of the Sea Breeze," by Melvin E. Stern, 1952 (Ozalid) *
14. "An Outline of the Meteorological Aspects of Radar Propagation," by K. R. Johannessen, circa 1952-3, 13 pp. (Typescr) *
15. "Maximum Wind Speeds and Wind Shears Over the Northern Hemisphere," May 1952, 15 pp. incl. tables. (AD-53523) *
16. "Northward Acceleration of Typhoons," by George P. Cressman. (Published in Bull. Amer. Met. Soc., Vol. 33, No. 6, June 1952, p. 243) *
17. "The Control-Line Method of Constructing Prognostic Charts," by Peter E. Wasko. (Published in Bull. Amer. Met. Soc., Vol. 33, No. 6, June 1952, pp. 233-236) *
18. "On the Formation of Squall Lines," by 2d Lt J. D. MacDonald, 1951. (Published in Bull. Amer. Met. Soc., Vol. 33, No. 6, June 1952, pp. 237-239) *
19. "On the Propagation and Growth of Jet-Stream Waves," by Sverre Pettersen, December 1951. (Published in AWSTR 105-80 and in Quart. Journ. Roy. Met. Soc., Vol. 78, No. 337, July 1952, pp. 337-353) *
20. "Ice Islands Conference," held in the Pentagon Building, 11 July 1952, 3 pp. (Ditto) *
21. "Air Weather Service Headquarters Letter No. 29," 15 July 1952, 15 pp. (Multi) *
22. "Weather Stations in the Far North," by Maj R. B. Sykes, Jr. (Published in Weatherwise, Vol. 5, No. 4, August 1952, pp. 75-77) *
23. "The Forecasting of Jet-Aircraft Condensation Trails," by H. S. Appleman. (Published in Aero. Eng. Rev., Vol. 11, No. 8, August 1952, pp. 30-32) (See also AWSM 105-100)
24. "(U) An Attempt to Detect and Locate Atomic Detonations at Great Distances," by Maj C. E. Jensen, 9 September 1952 (SECRET) *
25. "Interim Report on AWS Activities in the Field of Runway Temperature Observation," September 1952, 10 pp. (Mimeogr) *

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26. "A Mean Sounding Representative of the Tornadic Airmass Environment," by Lt Col E. J. Fawbush and Maj R. C. Miller. (Published in Bull. Amer. Met. Soc., Vol. 33, No. 7, September 1952, pp. 303-307) *
27. "Verification of an Equation for Trough and Ridge Motion," by Karl R. Johannessen and George P. Cressman, 1951. (Published in Bull. Amer. Met. Soc., Vol. 33, No. 7, September 1952, pp. 267-270) *
28. "Distribution of the Water Vapor Content for Selected Levels, Winter and Summer Seasons, for Selected Localities in the Northern Hemisphere," October 1952, 3 pp. illus. (AD-56711) *
29. "Brochure on Radiosonde AN/AMT-3 ()," 24 November 1952, 15 pp. (Mimeogr) *
30. "Symposium on Coordinating Meteorological Research and Weather Forecasting," 'Remarks' by Dr. Robert D. Fletcher. (Published in Bull. Amer. Met. Soc., Vol. 33, No. 9, November 1952, pp. 359-361) *
31. "USAF Aircraft Accidents Involving Weather as a Factor, 1 January 1947 through 31 December 1952," with Supplement (Typescr) *
32. "Theory and Practice of Wet and Dry-Bulb Psychrometry," by V. S. Hardin, circa 1952, 11 pp. (Typescr) plus figs., refs. Condensed version: "On the Accuracies of Psychrometers," by V. S. Hardin, circa 1952, 6 pp. (Typescr) plus fig. *

1953Item No.

1. "(U) Distribution of Ballistic q-Factors and Associated Values Applicable to Europe and the USSR," prepared by Directorate of Climatology, January 1953. (SECRET) (Multi)
2. "The Formation of Exhaust Condensation Trails by Jet Aircraft," by H. S. Appleman. (Published in Bull. Amer. Met. Soc., Vol. 34, No. 1, January 1953, pp. 14-40) *
3. "Tornadoes and Related Severe Weather," 15 February 1953, 7 pp. plus charts. (Lithopr) *
4. "Climatology Applied by the Air Force," by Maj Gen W. O. Senter. (Published in Weatherwise, Vol. 6, No. 1, February 1953, pp. 51-52) *
5. "An Application of Absolute-Vorticity Charts," by George P. Cressman, August 1952. (Published in Journ. of Met., Vol. 10, No. 1, February 1953, pp. 17-24) *
6. "An Evaluation of Meeker's Method for Forecasting the Motion of High Level Cyclones," (A Report on a Mobilization Assignment Training Project, AF Reserve, Hq AWS) March 1953, 11 pp. plus fig. tables. (Ozalid) *
7. "On Changes in the Zonal Wind Profile and Their Relations to Forecasting," by Leonard W. Snellman. (Published in Bull. Amer. Met. Soc., Vol. 34, No. 3, March 1953, pp. 91-100) *
8. "(U) Reconnaissance Aircraft Requirements," 5 March 1953 (SECRET) *

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9. "'Comets' and Weather," British article on Flight Planning and Weather. (Published in Weather, Vol. 7, Nos. 3-4, March-April 1952) Reproduced by AWS April 1953, 12 pp. (Mimeogr) *
10. "Determination and Analysis of Ballistic Quantities," by W. C. Spreen, April 1953, 97 pp. (Typescr) plus figs. *
11. "The Association of Wind Speed with Height of Upper-Air Constant-Pressure Surfaces," by Robert D. Fletcher. (Published in Bull. Amer. Met. Soc., Vol. 34, No. 4, April 1953, pp. 155-159) *
12. "Note on Local Winds Near Big Delta, Alaska," by Maj A. Ehrlich. (Published in Bull. Amer. Met. Soc., Vol. 34, No. 4, April 1953, pp. 181-182) *
13. "On Anomalous Winds in the Free Atmosphere," by Lt Col A. F. Gustafson. (Published in Bull. Amer. Met. Soc., Vol. 34, No. 5, May 1953, pp. 196-201) *
14. "Evaluation of R. Fjörtoft's Graphical Technique for Preparing 24-hour 500-mb Prognostic Charts," August 1953, 9 pp. (Ozalid) *
15. "Report of Progress for the Period 1 February 1953 - 15 August 1953 Joint GRD - AWS Numerical Prediction Project," 15 August 1953, 48 pp. (Multi) * (Published by AFCRC)
16. "Forecasting High Clouds from High-Level Constant-Pressure Charts," by [Maj] J. E. French and K. R. Johannessen. (Published in Proc. of the Toronto Meteorological Conference, 14 September 1953, pp. 160-171) *
17. "Observations on Billow Clouds and Deforming Exhaust Trails from Aircraft," by [Lt Col] Robert C. Bundgaard. (Published in Proc. of the Toronto Met. Conference, 1953, pp. 182-187) *
18. "Forecasting Problems in the Arctic with Special Reference to Northern Greenland," by [CWO] Matthew J. Toyli. (Published in Proc. of the Toronto Met. Conference 1953, pp. 74-77) *
19. Excerpt: "Encoding and Interpretation of RAREPS, RAREP CODES," circa 1953, 9 pp. (Photostat) *
20. "(U) Project 7.1 OPERATION IVY, RDF Detection and Location of Detonations at Great Distances," 1953, 40 pp. (Ozalid) incl. fig. (SECRET) * (Prepared with assistance of AWS personnel)
21. "Progress Report on Meteorological Problems Being Studied by the Air Weather Service," September 1953, 7 pp. (Multi) *
22. "Snow, Ice and Permafrost," February 1953, 6 pp. (Typescr) Letters attached on "Cooperative Trafficability Tests in Arctic," 12 November 1953; "Sea Ice Reporting from Shore Installations," 10 September 1953 (Typescr) *
23. "Air Force Weather Careers," by Maj Gen W. O. Senter. (Published in Weather-wise, Vol. 6, No. 5, October 1953, pp. 122-123) *
24. "A Review of Current Knowledge of High Level Turbulence," by J. Clodman, Met. Div., Dept. of Transport, Canada, CIR-2353, TEC-163, 1 September 1953. Reprinted, except for Appendices, by Hq AWS, November 1953, 14 pp. (Mimeogr) *
25. "Advanced Forecasting Techniques," by Dr. Sverre Petterssen, 1953, 23 pp. (Typescr) illus. *
26. "(U) Project 7.1, Operation Upshot/Knothole," 1953 (Partially typescr) 220 pp. incl. photos. (SECRET) *

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27. "The Cause and Forecasting of Ice Fogs," by H. S. Appleman. (Published in Bull. Amer. Met. Soc., Vol. 34, No. 9, November 1953, pp. 397-400) *
28. "Some Climatological Problems Associated with Assignment of Engineering Design Criteria," by Woodrow C. Jacobs, and William C. Spreen. (Published in Bull. Amer. Met. Soc., Vol. 34, No. 10, December 1953, pp. 462-467) *

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1. "Equivalent Head Winds for Transport Operations, Military Air Transport Service," (Preliminary edition) February 1954, 11 pp. (Typescr) *
2. "Some Features of the Cyclogenetic Case of 7-9 March 1953," February 1954, 13 pp. (Typescr, draft only) *
3. "Weathervision Using Industrial Television," April 1954 (Multi) plus photos (Lithopr) *
4. "An Objective Technique for Forecasting Low Ceilings and Visibilities at Andrews AFB," April 1954, 11 pp. (Multi) *
5. "Status of the Equipment Development Program of the Air Weather Service as of April 1954," 11 pp. (Multi) *
6. "Weather Limitations on the North Atlantic Jet Ferrying Route," (Revised edition) April 1954, 19 pp. (Ozalid) *
7. "An Approximate Method of Divergence Measurement," by George P. Cressman, October 1953. (Published in Journ. of Met., Vol. 11, No. 2, April 1954, pp. 83-90) *
8. "Synoptic Patterns Associated with Singularities in the Northeastern Atlantic," by Maj Albert Ehrlich. (Published in Bull. Amer. Met. Soc., Vol. 35, No. 5, May 1954, pp. 215-219) *
9. "Design of a Cloud-Phase Chart," by H. S. Appleman. (Published in Bull. Amer. Met. Soc., Vol. 35, No. 5, May 1954, pp. 223-225) *
10. "Prognostic Equations for the Mean Motions of Simple Fluid Systems and Their Relation to the Theory of Large Scale Atmospheric Turbulence," by Maj P. D. Thompson, December 1953. (Published in Tellus, Vol. 6, No. 2, May 1954, pp. 150-164) *
11. "Tornadoes and Related Severe Weather," 15 June 1954, 7 pp. plus charts and graphs (Lithopr) *
12. "The Barotropic Model," by [Maj] P. D. Thompson. (Published in Proc. of Workshop on Numerical Weather Prediction, D.C. Branch AMS, June 1954, pp. 15-27) *
13. "Baroclinic Effects (Part I)," by [Maj] P. D. Thompson. (Published in Proc. of Workshop on Numerical Weather Prediction, D.C. Branch AMS, June 1954, pp. 36-45) *
14. "Baroclinic Effects (Part II)," by [Maj] P. D. Thompson. (Published in Proc. of Workshop on Numerical Weather Prediction, D.C. Branch AMS, June 1954, pp. 46-49) *

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15. "Present Research and Future Plans," by G. P. Cressman. (Published in Proc. of the Workshop on Numerical Weather Prediction, D.C. Branch AMS, June 1954, pp. 94-103) *
16. "Some Aids in the Construction of the Tropopause Chart," by Maj Aksomitas, WBAN, 13 August 1954 (Mimeogr). Comments from the field units attached. *
17. "A Description of Office of Analysis and Forecasting at Tokyo Weather Central (May 1954)," 12 August 1954, 7 pp. (Mimeogr) *
18. "Report of Progress for the Period 15 February 1954-15 August 1954. Joint GRD — AWS Numerical Prediction Project," 15 August 1954, 48 pp. (Multi) (Published by AFCRC) *
19. "An Introduction to Numerical Weather Prediction," by Maj P. D. Thompson. Joint GRD — AWS Numerical Prediction Project, 1954, 37 pp. (Multi) (Published by AFCRC) *
20. "New Air Force Weather Equipment," by Russell H. Johnson. (Published in Weatherwise, Vol. 7, No. 4, August 1954, pp. 82-85, and p. 102) *
21. "The Error in Rawin Computations Due to Neglecting the Earth's Curvature," by Lt Col A. F. Gustafson. (Published in Bull. Amer. Met. Soc., Vol. 35, No. 7, September 1954, pp. 295-300) *
22. "Dew Observation Program," September 1954, (photos) *
23. "Progress Report on Meteorological Problems Being Studied by the Air Weather Service," 1 October 1954, 7 pp. (Multi) *
24. "The Jet Stream," November 1954, 11 pp. (Typescr) *
25. "An Experiment in Objective Analysis," by B. Gilchrist and G. P. Cressman, July 1954. (Published in Tellus, Vol. 6, No. 4, November 1954, pp. 309-318) *
26. "A Note on the Integration of the Vorticity Equation for Quasi-Geostrophic Flow," by Maj P. D. Thompson, April 1954. (Published in Tellus, Vol. 6, No. 4, November 1954, pp. 319-325) *
27. "Symposium on Height and Temperature Analysis at 100 mb and 50 mb," 9 December 1954, 11 pp. (Mimeogr) *
28. "A Method for Estimating the Height of Cirrostratus Clouds," by Herbert S. Appleman. (Published in Trans. Amer. Geophys. Un., Vol. 35, No. 6, December 1954, pp. 988-990) * (See also AWSTR 105-110)
29. "Theory of the Mean Atmospheric Perturbations Produced by Differential Surface Heating," by 2d Lt Melvin E. Stern, April 1954. (Published in Journ. of Met., Vol. 11, No. 6, December 1954, pp. 495-502) *
30. "Determination of Vector Wind Error," 1954, 12 pp. (Oxalid) *
31. "A Preliminary Evaluation of the Weather at Fletcher's Island (T-3)," by Maj Leslie A. Shankey, 1954, 10 pp. (Typescr) (AD-44213) *
32. "The Effect of Atmospheric Temperature on the Range of the B-47 Jet Aircraft," (Presented to NACA Working Group on Problems of Jet Operations, 1954) 6 pp. (Typescr) *

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1. "An Indirect Method for Estimating the Weight of Glaze on Wires," by [Capt] Robert W. Lenhard. (Published in Bull. Amer. Met. Soc., Vol. 36, No. 1, January 1955, pp. 1-5) *
2. "Clear-Air Turbulence Near the Jet-Stream Maxima," by LeRoy H. Clem. (Published in Bull. Amer. Met. Soc., Vol. 36, No. 2, February 1955, pp. 53-60)*
3. "Leadership, a Treatise for AWS Commanders," by Col W. S. Barney, 15 March 1955, 29 pp. (Multi) *
4. "Improved Weather Observations for USAF Bases," 18 March 1955, 14 pp. (Multi) *
5. "Cross Sections of the Mean Zonal Flow and Temperature Along 80°W," by Adam Kochanski, June 1954. (Published as AWSTR 105-115 and in Journ. of Met., Vol. 12, No. 2, April 1955, pp. 95-106) *
6. "The Weather of Formosa," by Maj W. B. Willis. (Published in Weatherwise, Vol. 8, No. 2, April 1955, pp. 39-43) *
7. "Computation of Maximum Surface Winds in Hurricanes," by Robert D. Fletcher. (Published in Bull. Amer. Met. Soc., Vol. 36, No. 6, June 1955, pp. 247-250) *
8. AWS Forecast Capabilities Program, Third Report: "Seasonal Performance on Upper-Air Forecasts," June 1955, 13 pp. (Multi) *
9. "Tornadoes and Related Severe Weather," (Revised) June 1955, 6 pp. plus charts (Lithopr) *
10. "Status of the Equipment Development Program of the Air Weather Service as of 1 July 1955," 10 pp. (Multi) *
11. "Freeman's Method of Computing Balloon Trajectories," 13 July 1955, 4 pp. (Multi) *
12. "[Your Role In] The Air Weather Service," circa 1955, 24 pp. (Lithopr) *
13. "NWP-Weather Reconnaissance Conference," held at Hq AWS, 16 August 1955, 4 pp. (Typescr) *
14. "Accuracy of Recon Observations," by K. R. Johannessen [1955], 11 pp. (Manuscript) *
15. "Report of Progress for the Period 15 August 1954-15 August 1955, Joint GRD — AWS Numerical Project," 15 August 1955, 100 pp. (Multi) * (Published by AFCRC)
16. "NWP and Hurricanes Connie and Diane, August 1955," by K. R. Johannessen, circa September 1955, 3 pp. (Typescr) plus illus. *
17. "Weather Support for the Atomic Tests," by Lt Col Clifford A. Spohn. (Published in Weatherwise, Vol. 8, No. 5, October 1955, pp. 111-115) *
18. "(U) The Radioactive Fallout Problem," by Lt Col A. Kouts, 17 October 1955, (Typescr) (SECRET) *
19. "Upper Winds Between New Zealand and Antarctica and Cloud Cover Over Antarctica (November-December)," prepared by Climatology Division, October 1955, 3 pp. (Typescr) plus figs. *

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20. "Progress Report on Selected Meteorological Problems Being Studied by the Air Weather Service," 1 November 1955, 7 pp. (Multi) *
21. "Reconnaissance Symposium," for AMS Meeting, Honolulu, by Brig Gen T. Moorman, November 1955, 7 pp. (Typescr) *
22. "Coriolis Acceleration and How it Can Approximately be Taken Into Account When Computing the Impact Point," by K. R. Johannessen, December 1955, 4 pp. (Typescr) *
23. "Dynamical Prediction — the Rational Approach to Weather Forecasting," by Maj Philip Duncan Thompson. (Published in Weatherwise, Vol. 8, No. 6, December 1955, pp. 145-149) *

1956Item No.

1. "Strong Surface Winds at Big Delta, Alaska," by J. Murray Mitchell, December 1955. (Published in Mon. Wea. Rev., Vol. 84, No. 1, January 1956, pp. 15-24) *
2. "Daily Wind Flow at the 50- and 25-mb Levels," by Adam Kochanski and Peter E. Wasko. (Published as AWSTR 105-96 and in Bull. Amer. Met. Soc., Vol. 37, No. 1, January 1956, pp. 8-14) *
3. "A Note on the Effect of Aircraft Exhaust on Airport Visibility," by H. S. Appleman. (Published in Bull. Amer. Met. Soc., Vol. 37, No. 1, January 1956, pp. 19-21) *
4. "Horizontal Temperature Gradient at 200 mb and Adjacent Levels," by Adam Kochanski. (Published in Bull. Amer. Met. Soc., Vol. 37, No. 2, February 1956, pp. 47-54) *
5. "Mean Wind Flow at the 50- and 25-mb Levels," by Adam Kochanski, and Peter E. Wasko. (Published in AWSTR 105-96 and in Bull. Amer. Met. Soc., Vol. 37, No. 2, February 1956, pp. 61-68) *
6. "Errors in Upper-Level Wind Forecasts," by Maj Hugh W. Ellsaesser. (Published in Proc. of the Workshop on Stratospheric Analysis and Forecasting, D.C. Branch AMS, February 1956, pp. 37-43) *
7. "Structure and Analysis of the Lower Stratosphere," by Adam Kochanski. (Published in Proc. of the Workshop on Stratospheric Analysis and Forecasting, D.C. Branch AMS, February 1956, pp. 44-57) *
8. "Three-Dimensional Analysis of the Jet Stream Through Shear Charts," by Karl R. Johannessen. (Published in Proc. of the Workshop on Stratospheric Analysis and Forecasting, D.C. Branch AMS, February 1956, pp. 117-128) *
9. "Meteorology of the Arctic," by Sverre Petterssen, W. C. Jacobs, and B. C. Haynes, Monograph published by Tech. Asst. Chief Naval Ops. for Polar Project (Op-03A3), March 1956, 207 pp. *
10. "A Test of Numerical Prediction Methods Based on the Barotropic and Two-Parameter Baroclinic Models," by Maj P. D. Thompson, and W. Lawrence Gates, March 1955. (Published in Journ. of Met., Vol. 13, No. 2, April 1956, pp. 127-141) *

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11. "Analysis of Weather Detachment Activity — A Report on Applications on Work Measurement," May 1956, 30 pp. (Multi) *
12. "Description of the 500-mb 72-hour JNWP Barotropic Prognostic Charts Being Transmitted on Facsimile," 17 May 1956, 3 pp. (Multi) *
13. "A Theory of Large-Scale Disturbances in Non-Geostrophic Flow," by Maj Philip Duncan Thompson, April 1955. (Published in Journ. of Met., Vol. 13, No. 3, June 1956, pp. 251-261) *
14. "(U) Weather and Exercise Cracker Jack," 1 June 1956, 37 pp. (SECRET) Part IV: "Weather Effects and Weather Support," pp. 39-51 (CONFIDENTIAL) *
15. "Selective Annotated Bibliography on Temperature Inversions in the Troposphere," by Roderick S. Quiroz. (Published in Met. Abs. and Biblio., Vol. 7, June 1956, pp. 742-789) *
16. "Report on Program of Evaluation and Development Division of Scientific Services, Hq AWS," 30 June 1956, 11 pp. (Multi) *
17. "The Future of Numerical Weather Prediction," by Brig Gen T. S. Moorman, Commanders' Conference, Wiesbaden, 23-27 July 1956, 6 pp. (Multi) *
18. "Pilot-to-Forecaster Service," 1 July 1956, 6 pp. (Lithopr) *
19. "Empirically Determined Distributions of Hourly Temperatures," by William C. Spreen, November 1955. (Published in Journ. of Met., Vol. 13, No. 4, August 1956, pp. 351-355) *
20. "Final Report, Project Barnstorm," 8 August 1956, 12 pp. (Multi) *
21. "High Speed Computing in Weather Prediction," presented at the Meeting of the Association for Computing Machinery, Univ. of Calif., Los Angeles, 27 August 1956, by Lt Col Philip D. Thompson, 17 pp. (Ozalid) *
22. "Optimum Smoothing of Two-Dimensional Fields," by Lt Col Philip Duncan Thompson, April 1956. (Published in Tellus, Vol. 8, No. 3, August 1956, pp. 384-393) *
23. "Two Outstanding Problems on Modern Meteorology," by Robert D. Fletcher. Paper read at AMS Meeting Albuquerque, 6 September 1956, 7 pp. (Multi) * (Published in Bull. Amer. Met. Soc., Vol. 37, No. 9, November 1956, pp. 473-476)
24. "AWS Wind Factor Program (RCS: AWS-U20)," Report No. 1, 27 September 1956, 5 pp. plus tables. (Multi) *
25. "The Distribution of Temporal Wind Variation," by W. C. Spreen, October 1956, 17 pp. (Preliminary draft) *
26. "Progress Report on Selected Meteorological Problems Being Studied by the Air Weather Service," October 1956, 5 pp. (Multi) *
27. "Estimating Vorticity Advection," by [Lt Col] Robert C. Bundgaard. (Published in Bull. Amer. Met. Soc., Vol. 37, No. 9, November 1956, pp. 465-472) *
28. "(U) Briefings Presented by AWS Personnel to the Geophysical Research Panel of the Scientific Advisory Board to the Chief of Staff, USAF, 7-8 November 1956," 31 pp. (Multi) * Supplement, April 1957, 3 pp. (Multi) (SECRET) *

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29. "700-mb 5-Day Mean Northern Hemisphere Anomaly-Tendency Charts," by Maj Donald E. Martin, 1956. (See AWSTR 105-100) *
30. "Computation of Streamlines From the Pressure Field," by Lt Col Robert C. Bundgaard, May 1956. (Published in Journ. of Met., Vol. 13, No. 6, December 1956, pp. 569-582) *

1957Item No.

1. "Clear Air Turbulence Over the United States," by LeRoy H. Clem, 1957, 14 pp. (Ozalid) plus figs. * (See AWSTR 105-147)
2. "Weathervision System," 24 January 1957, 26 pp. (Multi) *
3. Comments of Hq AWSSS on Data and Conclusions in Sandia Research Report SC-3880 (TR) Eng. Res., "Project Rawijet - A Study of the Wind Variability in Space and Time at the Salton Sea Test Base, 10 December 1956," 19 February 1957, 4 pp. (Ozalid) plus figs. *
4. Comments on "Initial Electrification Processes in Thunderstorms," by H. S. Appleman. (Published in Journ. of Met., Vol. 14, No. 1, February 1957, p. 89) *
5. Additional remarks on "Initial Electrification Processes in Thunderstorms," by H. S. Appleman. (Published in Journ. of Met., Vol. 14, No. 1, February 1957, p. 90) *
6. "Progress During 1956 in American Meteorology," by Robert D. Fletcher. (Published in Weatherwise, Vol. 10, No. 1, February 1957, pp. 3-8) *
7. "A Heuristic Theory of Large-Scale Turbulence and Long-Period Velocity Variations in Barotropic Flow," by Lt Col Philip Duncan Thompson, March 1956. (Published in Tellus, Vol. 9, No. 1, February 1957, pp. 69-91) *
8. "Report of the 1957 AWS Scientific Services Conference at Andrews AFB, 24-26 April 1957." *

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- I. Agenda: Schedule of All Conference Activities.
- II. Welcoming Address: Maj Gen T. S. Moorman, Jr., Commander, Air Weather Service.
- III. Plan of Conference.
- IV. Program for Working Group Discussions.
 - a. Working Group 1, "The Technical Services Program."
 - b. Working Group 2, "Central Weather Facility Operations."
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- V. Recommendations of the Conference.
- VI. List of Conferees.
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TAB B: "Field Technical Services Authorizations," by Capt. E. E. Brown.

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8. Appendices (Cont'd)
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 - TAB P. "Approach and Landing Observations," by Lt Col R. L. Houghten.
 - TAB Q. "JNWP Products," by Capt E. C. Kindle.
 - TAB R. "Forecast Verification and Performance," by Maj R. A. Wegener.
9. "Weathervision," by Maj Lewis J. Neyland, and Cornelius J. Callahan. (Published in Weatherwise, Vol. 10, No. 2, April 1957, pp. 42-43) *
10. "Weathervision Project Officers Guide," 1 May 1957, 23 pp. (Multi) (AD-129547)*
11. "Manpower Management Handbook," 1 May 1957, 31 pp. (Multi) *
12. "Statistical Aspects of the Dynamics of Quasi-Nondivergent and Divergent Baroclinic Models," by Lt Col Philip Duncan Thompson, 25 May 1957, 27 pp. (Ozalid) plus fig. *
13. "Synoptic Models of Thickness and Isotherms," by Adam Kochanski. (Published in Bull. Amer. Met. Soc., Vol. 38, No. 6, June 1957, pp. 347-352) *
14. "A Study of Numerical Forecasting Errors," by G. P. Cressman, and LCdr W. E. Hubert, US Navy, 8 July 1957. (Published in Mon. Wea. Rev., Vol. 85, No. 7, July 1957, pp. 235-243) *
15. "Linear Regression Method for Making Two Hour Visibility Forecasts," August 1957, 28 pp. incl. tables, illus. (Manuscript) (AD-147507) *
16. "File on Atwell's Report," 1957. *
17. "Uncertainty of Initial State as a Factor in the Predictability of Large Scale Atmospheric Flow Patterns," by Lt Col Philip Duncan Thompson, February 1957. (Published in Tellus, Vol. 9, No. 3, August 1957, pp. 275-295) *

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19. "Proposed Recording and Disseminating Procedures for Surface Observations," 7 October 1957, 2 pp. (Multi) *
20. "Numerical Prediction: An Exposition and Review for the Nonspecialist," by [Lt Col] Philip D. Thompson. (Published in Bull. Amer. Met. Soc., Vol. 38, No. 8, October 1957, pp. 447-452) *
21. "A Statistical-Hydrodynamical Theory of Turbulent Flow Between Smooth Parallel Walls," by Lt Col Philip D. Thompson, USAF, JNWPU, 21 October 1957, 58 pp. (Multi) *
22. "An Experiment in Automatic Data Processing," by Maj H. A. Bedient, and G. P. Cressman, September 1957. (Published in Mon. Wea. Rev., Vol. 85, No. 10, October 1957, pp. 333-340) *
23. "Wave of Terror," by Maj Sheppard C. Cummings, from Flying Officers Kit, November 1957, issued by USAF, Directorate of Flying Safety Research, 12 pp. (Lithopr) *
24. "Geophysical Support Requirements," 26 November 1957, 10 pp. (Typescr) *
25. "Probability and the Weather Communication Problem," by R. A. Somers, December 1957, 13 pp. (Multi) *
26. "Organization of Weather Data for Short- and Long-Range Predictions," by Robert D. Fletcher, presented at Joint AMS-AAAS Meeting, Indianapolis, Indiana, 30 December 1957, 7 pp. (Typescr) *
27. "Minimal-Flight Planning for High-Level (30,000 to 45,000 Feet) Flights," by Ralph R. Ruyle, Jr., 1957, 22 pp. incl. illus. (AD-146321) *

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1. "Progress Report on Selected Meteorological Problems Being Studied by the Air Weather Service," 15 January 1958, 5 pp. (Multi) *
2. "A Study of the Relationship Between Visibility and Temperature-Dewpoint Spread," by H. S. Appleman, 16 April 1957. (Published in Bull. Amer. Met. Soc., Vol. 39, No. 1, January 1958, pp. 31-34) *
3. "Ageostrophic Deviations and Wind Prognoses," by Adam Kochanski, June 1957. (Published in Journ. of Met., Vol. 15, No. 1, February 1958, pp. 84-90) *
4. "Progress During 1957 in American Meteorology," by Robert D. Fletcher. (Published in Weatherwise, Vol. 11, No. 1, February 1958, pp. 3-6) *
5. "Meteorological Problems in Estimating Radioactive Dispersion and Fallout," by Lt Col Clifford A. Spohn, 9 May 1957. (Published in Bull. Amer. Met. Soc., Vol. 39, No. 3, March 1958, pp. 152-153) *
6. "Lowest Temperature in Greenland," by Roderick S. Quiroz. (Published in Mon. Wea. Rev., Vol. 86, No. 3, March 1958, p. 99) *
7. Letter: "Numerical Weather Prediction Program," 21 April 1958, 5 pp. (Multi) *

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8. Letter: "Template for Estimating Precipitable Water," 5 May 1958, 2 pp. (Multi), template attached. *
9. "An Empirical Correction to the Barotropic Forecast," by Capt Scott Williams, June 1957. (Published in Tellus, Vol. 10, No. 2, May 1958, pp. 216-224) *
10. "An Indirect Method for Estimating the Frequencies of Ceiling Below Various Altitudes and Within Various Altitude Ranges," by William C. Spreen and Irving Solomon, 12 September 1957. (Published in Bull. Amer. Met. Soc., Vol. 39, No. 5, May 1958, pp. 261-265) *
11. "A Note on Meteorological Glossaries," by Roderick S. Quiroz, December 1957. (Published in Bull. Amer. Met. Soc., Vol. 39, No. 5, May 1958, pp. 282-283) *
12. Abstract: "Some Studies of 'Weather' as an Initial Value Problem," by Karl R. Johannessen. (Published in Trans. Amer. Geophys. Un., Vol. 39, No. 3, June 1958, p. 520) *
13. Abstract: "Comparison of Methods of Computing Degree Days," by Oscar E. Richard. (Published in Trans. Amer. Geophys. Un., Vol. 39, No. 3, June 1958, p. 529) *
14. Letter: "An Informal Bibliography on the Synoptic Climatology of the USSR and Certain Peripheral Areas," 20 June 1958, 17 pp. (Typescr) *
15. Letter: "Numerical Weather Prediction Program," 21 July 1958, 2 pp. (Multi) *
16. Letter: "Evaluation of JNWPU Prognoses," 9 September 1958, 3 pp. (Multi) *
17. "Weather and Flying in Alaska," by Maj C. P. Wood and Capt J. J. Gleason. (Published in Weatherwise, Vol. 11, No. 5, October 1958, pp. 161-163) *
18. "Progress Report on Selected Meteorological Problems Being Studied by the Air Weather Service," 10 October 1958, 3 pp. (Multi) *
19. "Organizational Manual," 15 October 1958, 42 pp. (Multi) *
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21. "An Investigation of Systematic Errors in the Barotropic Forecasts," by Lt Col Donald E. Martin, July 1958. (Published in Tellus, Vol. 10, No. 4, November 1958, pp. 451-465) *
22. "Report of the 1958 AWS Scientific Services Conference, 10-14 November 1958."*
 Contents:
 Scientific Services Conference letter dated 24 July 1958.
 Scientific Services Conference letter dated 15 October 1958.
 Welcoming Address: Purpose of the Conference, by Col James T. Seavers, Jr.
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 I. Agenda: Schedule of All Conference Activities.
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 - TAB B. "Progress Report on NWP," by Maj Harold A. Bedient.
 - TAB C. "Missile-Test Weather Support," (Classified) by Maj Robert F. Durbin.
 - TAB D. "Status of System 433L," by Maj Ralph Elmendorf.
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 - TAB F. "Anticipated AWS Mission," by Maj William N. Nesley.
 - TAB G. "Summary of 1st Weather Wing Activities and Accomplishments in the Technical Services Field April 1957-September 1958."
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 - TAB N. "9th Weather Group Technical Services Activities October 1957-October 1958."
- 23. "Verification and Test of Merit of the Long-Range Forecasts (published in the Farm Journal)," by Karl R. Johannessen [1958], 11 pp. (Typescr).
- 24. "Geophysics Reconnaissance," 1958, 9 pp. (Typescr) *
- 25. "Climatology of the Trade-Wind Inversion in the Caribbean," by Murray Gutnick, 1958. (Published in Bull. Amer. Met. Soc., Vol. 39, No. 8, 1958) *

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- 1. "Survey of Available Air Density Data for the Atmosphere Between 100,000 and 250,000 Feet," 11 February 1959, 9 pp. (Typescr) *
- 2. "Comparison of Barotropic and Baroclinical Forecasts and Contributions of Various Effects," by Maj Lloyd W. Vanderman, USAF, William J. Drewes, USN, and Leo E. Hopp, USWB, January 1959. (Published in Mon. Wea. Rev., Vol. 87, No. 2, February 1959) *

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3. "Winds and Their Effect Upon Dense Bodies," by Maj C. L. Hasseltine, February 1959, 11 pp. (Typescr) *
4. "300-mb Isotach Analysis," by Edwin B. Fawcett and Leonard W. Snellman. (Published in Bull. Amer. Met. Soc., Vol. 40, No. 2, February 1959, pp. 78-84) *
5. "Meteorology Applied is a Social Affair," by Woodrow C. Jacobs. (Published in Bull. Amer. Met. Soc., Vol. 40, No. 4, April 1959, pp. 179-181) *
6. "Questionnaire Survey of Atmospheric Rocket and Satellite Data," prepared by Climatic Center, May 1959, 7 pp. (Mimeogr) *
7. "Thunderstorm-Hail Forecast Problem," by Paul E. Lehr, 14 May 1959, 6 pp. (Multi) *
8. "Data Available Thru Mechanization," 15 May 1959, 97 pp. (Multi/Lithopr) *
9. "On Barotropic and Baroclinic Models, with Special Emphasis on Ultra-Long Waves," by A. Wiin-Nielsen, May 1959. (Published in Mon. Wea. Rev., Vol. 87, No. 5, May 1959, pp. 171-183) *
10. "Comments on Hypsometry Related to Altimetry," April 1959. (Submitted by the Air Weather Service to NASA Committee on Aircraft Operating Problems, June 1959, 1 p.) (Multi) *
11. "(U) Climatic Aspects of Ballistic Wind and Density," by Climatic Center, 10 June 1959, 40 pp. (Multi) (CONFIDENTIAL) *
12. "A Resumé of Weapon Systems 433L and 460L," June 1959, (presented to NASA Committee on Aircraft Operating Problems, June 30, 1959, 2 pp.) (Multi) *
13. "Progress Report on Selected Meteorological Problems Being Studied by Hq Air Weather Service," June 1959. (Presented to NASA Committee on Aircraft Operating Problems, 30 June 1959), 5 pp. (Multi) *
14. "Systems 433L and 460L," by Dr. R. D. Fletcher, 16 June 1959. (Presented to NASA Committee on Aircraft Operating Problems, 30 June 1959), 12 pp. (Multi) *
15. "Forecast Verification Study," by Lloyd Mitchell, 1 July 1959, 8 pp. incl. Appendices. (Multi) *
16. "Future Flight Environment," by Dr. R. D. Fletcher [June 1959], (Presentation on Systems 433L and 460L to NASA Committee on Aircraft Operating Problems, June 30-July 1, 1959), 18 pp. (Multi) *
17. "Survey of Availability of Atmospheric Data Above 100,000 Feet from U.S. Rocketsonde and Satellite Observations," prepared by Climatic Center, August 1959, 27 pp. (Multi) *
18. "Meteorological Accuracies in Missile Testing," by Capt Robert W. Lenhard, October 1958. (Published in Journ. of Met., Vol. 16, No. 4, August 1959, pp. 447-453) *
19. "Long-Range Weather Forecasting in Soviet Union," by Werner A. Baum and Philip D. Thompson, 17 January 1959. (Published in Bull. Amer. Met. Soc., Vol. 40, No. 8, August 1959, pp. 394-409) *
- + 20. "Probability of Fallout From Multiple Nuclear Detonations," by Capt T. D. Potter, Climatic Center, 27 August 1959, 7 pp. (Multi) * (Published in AWS TR 162)

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21. Geophysics Panel Meeting of Scientific Advisory Board, held at Scott AFB, 28-29 August 1959. *
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Tab F. "Future Requirements for Environmental Support," by Lt Col Leslie W. Cowan.
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22. "A Study of Energy Conversion and Meridional Circulation for the Large-Scale Motion in the Atmosphere," by A. Wiin-Nielsen, August 1959. (Published in Mon. Wea. Rev., Vol. 87, No. 9, September 1959) *
23. "Cloud Structure — A Factor in Aircraft Icing," by L. V. Mitchell and H. S. Appleman, September 1959, 10 pp. (Typescr) *
24. "Progress Report on Selected Meteorological Problems Being Studied by Hq Air Weather Service," September 1959, (Presented to NASA Committee on Aircraft Operating Problems, 19 November 1959) 8 pp. (Multi) *
25. "Problems Pertaining to Environmental Characteristics and Meteorology," by Dr. R. D. Fletcher [October 1959], (Presented to NASA Committee on Aircraft Operating Problems, November 1959), 5 pp. (Multi) *
26. "The Present State of Knowledge on Weather Modification," by H. S. Appleman, October 1959, 9 pp. (Multi) Attachment to letter on "Weather Modification," November 1959. *
27. "A Method for the Construction of Climatological Fallout-Dose Patterns," by Maj John McCabe and Capt Thomas Potter, May 1959. (Published in Bull. Amer. Met. Soc., Vol. 40, No. 11, November 1959, pp. 561-565) *
28. "On a Graphical Method for an Approximate Determination of the Vertical Velocity in the Mid-Troposphere," by A. Wiin-Nielsen, April 1959. (Published in Tellus, Vol. 11, No. 4, November 1959, pp. 432-440) *
29. "Correlation Between Integrated Wind and Integrated Density," Part III, of Climatic Aspects of Ballistic Wind and Density, prepared by Climatic Center, December 1959, 24 pp. (Multi) Plus figs. *

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30. "New Equipment for JNWP — The AVCO Multi Teletype Collator System," by H. A. Bedient, Office Note No. 13, JNWP, Nat'l. Met. Center, 1959, 4 pp. plus chart (Ditto) *
31. "JNWP 12-Hr and 24-Hr Upper-Level Forecast Errors," by Capt John A. Brown, Jr., Office Note No. 14, JNWP, Nat'l. Met. Center, 1959, 7 pp. plus tables (Ozalid) *
32. "JNWP Operational Models August 1958 to advent of IBM 7090 (1960)," by Maj Hugh W. Ellsaesser, Office Note No. 15, JNWPU, 1959, 33 pp. (Lithopr) *
33. "Multiple Linear Regression Equations Expressing Heights of Certain Pressure Surfaces," by Capt John A. Brown, Jr., Tech Memo No. 15, JNWPU, April 7, 1959, 5 pp. (Lithopr) *
34. "Hurricane Forecasting," by Maj Lloyd W. Vanderman, Tech Memo No. 16, JNWPU, 20 August 1959, 5 pp. plus figs. (Lithopr) *

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1. "Technical Consultant Workshop Program, 26 Jan through 29 Jan 1960," (Multi) *
2. "On Changes in Zonal Momentum in Short-Range Numerical Prediction," by A. Wiin-Nielsen, February 1960. (Published in Mon. Wea. Rev., Vol. 88, No. 2, January 1960, pp. 55-65) *
3. "Weather as You Like It," by I. R. Frey and F. H. Miller. (Published in Flying Safety, February 1960, pp. 26-27) *
4. "A Fallacy in the Use of Skill Scores," by Herbert S. Appleman, August 1959. (Published in Bull. Amer. Met. Soc., Vol. 41, No. 2, February 1960, pp. 64-67) *
5. "The Use of Cloud-Seeding to Improve Air-Base Weather," by Herbert S. Appleman, 30 November 1959, 6 pp. (Multi) * (Published in Interceptor, February 1960, pp. 26-27)
6. "A Numerical Prediction Experiment Involving Data Paucity and Random Errors," by Edward O. Jess, May 1959. (Published in Tellus, Vol. 12, No. 1, February 1960, pp. 21-30) *
7. "Study of Upper-Level Winds Between California and Hawaii," by L. V. Mitchell, 1 March 1960, 9 pp. (Typescr) plus figs. *
8. "Climatic Aspects of Ballistic Wind and Density," Report 3009, Part I: "Integrated Wind," (Amended) prepared by Climatic Center, May 1960, 29 pp. (Multi) plus figs. *
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10. "Feasibility Study for an Electronic Data Processing System," 15 March 1960 (Multi) *
11. "Report of AWS Commanders Conference, 26-28 April 1960," 68 pp. (Multi) *

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12. "(U) A Graphical Method of Timing Events on an Inertially Programmed Missile Reentering the Atmosphere," by K. R. Johannessen, April 1960, 12 pp. (Typescr) plus figs. (SECRET) *
- + 13. "Tornado Alley," compiled by the Directorate of Information, May 1960, 30 pp. (Multi) *
14. "200-mb Forecasts," by Maj Lloyd W. Vanderman, JNWPU Tech Memo No. 18, May 1960, 22 pp. (Multi) incl. tables, figs. *
15. "Computation of the Distribution of Maximum Allowable Gross Takeoff Weight for Aircraft," by I. Solomon and W. C. Spreen. (Published in AMS Met. Monographs, Vol. 4, No. 22, May 1960, pp. 80-88) *
- + 16. "Estimating 20th, 10th, and 5th Percentiles of Station-Level Density," by Adam Kochanski, June 1960, 40 pp. (Multi) incl. figs. (AD-239650) * (Published in AWS TR 153)
- + 17. "(U) The Effect of Atmospheric Density Variability in Air Burst Fuzing for Middle and High Latitude Targets," by K. R. Johannessen and Maj C. F. Roberts, June 1960 (SECRET) * (Published in AWS TR 155)
18. "Weather Roulette," by 1st Lt R. K. McMillan. (Published in Flying Safety, June 1960, p. 9) *
19. "Steer Clear, My Deer," by Capt C. O. Cummins, 392d Combat Support Group. (Published in Flying Safety, June 1960, p. 20) *
20. "Meteorological Surveillance and Reconnaissance," Letter dated 1 June 1960, 2 pp. (Typescr) *
21. "Operation of the Air Weather Service Automatic Data Processing System," 22 June 1960, 20 pp. (Multi) *
22. "A Proposal for an Operational Meteorological Satellite System," by Lt Col J. Glover and Maj Stanley Pearce, 26 August 1960, 4 pp. (Typescr) with Appendix A: "System Requirements," 4 pp. (Typescr) *
23. "Climatological Orientation Program," 12 September 1960, 36 pp. (Multi) *
24. "Plan for Management of the Air National Guard Weather Flights," 15 October 1960, 30 pp. (Lithopr) * "Change No. 1," 15 February 1961.
- + 25. "Reorganization of the AWS Catalog of Computer Programs," 1 November 1960, 87 pp. (Multi) *
26. "Operational Applications of Recent Developments in the Study of Infrared Radiation," by Capt J. R. Blankenship, December 1960, 6 pp. (Typescr) plus refs. *
27. "A Review of the Use of Computers in Weather Forecasting," (Scientific Services Indoctrination Program), given at Suitland Hall and JNWP, 1-2 December 1960, 14 pp. (Multi) *
28. "Results of Verification of Snow vs Rain Forecasting Techniques," 1960, 2 pp. (Typescr) *
29. "(U) AWS Weather Reconnaissance, 1955-1960," Staff Study, 92 pp. (Typescr) (SECRET) *
30. "JNWP Operational Models August 1958 to advent of IBM 7090 (1960)," by Maj Hugh W. Ellsaesser, JNWP Office Note No. 15 (Revised), 1960, 38 pp. (Lithopr) *

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31. "A Note on the Thermal Structure of Waves in a Simple Baroclinic Model," by A. Wiin-Nielsen, Tech Note No. 17, JNWPU, 16 May 1960, 26 pp. plus figs. (Lithopr) *

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1. "Test of Hurricane Forecasting Rules," by Lloyd V. Mitchell, February 1961, 9 pp. (Typescr) plus figs. *
2. "Diagnosis of Divergence in a Three-Parameter Numerical Prediction Model," by A. Wiin-Nielsen. (Published in Mon. Wea. Rev., March 1961, pp. 67-90) *
3. "Programming Information for the AN/TPQ-11," 14 April 1961, 18 pp. incl. AWS Brochure and Minutes of Conference. (Multi) *
4. "A Preliminary Investigation of a Geostrophic Wind Approximation for Forecasting Maximum Surface Wind," by Capt Myron K. Cox, May 1961, 12 pp. (Multi) (AD-259636) *
5. "The Problem of Forecasting Hail Encounters During Flights through Thunderstorms," by Paul E. Lehr, 9 June 1960. (Published in Bull. Amer. Met. Soc., Vol. 42, No. 5, May 1961, pp. 345-348) *
6. "A Preliminary Study of the Dynamics of Transient, Planetary Waves in the Atmosphere," by A. Wiin-Nielsen, USWB, JNWPU Tech Memo No. 19, 22 May 1961, 49 pp. (Multi) * (Published in Tellus, Vol. 13, No. 3, August 1961, pp. 320-333.)
7. "Professionalism," Letter to all Detachments, 1 June 1961, 2 pp. (Multi) *
8. "A Dynamical Method of Analyzing Meteorological Data," by Col Philip D. Thompson, June 1961, 36 pp. (Typescr) * (Published in Tellus, Vol. 13, No. 3, August 1961, pp. 334-349.)
9. "Consultant Views on AWS Trends and Problems," 15 June 1961, 22 pp. (Multi) *
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"The Local-Area Surface-Analysis Program," by E. B. Fawcett, 4 pp.
"Comments by AWSPL on Mr. Fawcett's Briefing," 2 pp.
"AWSSS Reply to AWSOP Comments," 1 p.
10. "Superior Photographic Reconnaissance of Tropical Cyclones," by Robert D. Fletcher, Maj James R. Smith and Lt Col Robert C. Bundgaard, 1961. (Published in Weatherwise, Vol. 14, No. 3, 1961, pp. 103-109) *
- + 11. "Wind Variability at 150,000 Feet," by Herbert S. Appleman, 20 September 1961, 11 pp. (Multi) * (Published in AWS TR 160)
12. "Resumé of Meteorological Evaluation and Development Activities of Air Weather Service, Scott AFB, Illinois," 6 October 1961, 2 pp. (Multi) *

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13. "TIROS — Nimbus — Aeros, (Auf dem Wege zu einem Satelliten-Wetterdienst)," by Capt D. H. Lufkin, Hq AWS, USAF, z. Z. International Meteorological Institute, Stockholm, Sweden. (Published in Die Umschau, Vol. 61, No. 19, October 1961, pp. 581-584) *
14. "A Western Atlantic Vortex Seen by TIROS I," by Maj J. B. Jones, June 1961. (Published in Mon. Wea. Rev., October 1961, pp. 383-390) *
15. "Analysis of Satellite Infrared Radiation Measurements on a Synoptic Scale," by Lt Col Melvin Weinstein, AWS, and Verner E. Suomi, Univ. of Wisconsin. (Published in Mon. Wea. Rev., Vol. 89, No. 11, November 1961, pp. 419-428)*
16. "On Short- and Long-Term Variations in Quasi-Barotropic Flow," by A. Wiin-Nielsen. (Published in Mon. Wea. Rev., Vol. 89, No. 11, November 1961, pp. 461-476) *
17. "Plan for Management of the Air National Guard Weather Flights," 24 November 1961, 49 pp. (Lithopr) *
18. "Applied Aerospace Climatology Conference," 4-8 December 1961, 29 pp. (Multi)*
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 "Texas Tower Evacuation Problem," by Capt Glenn C. Reiter, p. 7.
 "Tree-Top Wind Factors," by Rolf M. Nilsestuen, p. 8.
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"Circulation of the Upper Stratosphere and Mesosphere," by Sidney Teweles, p. 28.

19. "Evaluation and Critique of 'Aerospace Operations Course' Conducted by Air University," 19 December 1961, 8 pp. (Multi) *

20. "Models of Vertical Correlation of the Wind," by Adam Kochanski. (Published in Journ. of Met., Vol. 18, No. 2, April 1961, pp. 151-159) *1962Item No.

1. "Geophysics Panel of Scientific Advisory Board," 16 January 1962, 61 pp. (Multi) *

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TAB K. "Applied Research and Planning for Aerospace Environment Support," by Robert D. Fletcher.

TAB L. Speech, by Brig Gen Norman L. Petersen, presented at the Symposium on Education, National Meeting, AMS, Tallahassee, Florida. (Published in Bull. Amer. Met. Soc., March 1962, pp. 79-82)

SECTION A (Cont'd)1962 (Cont'd)Item No.

2. "Verification of Numerical Weather Prediction Operational Hurricane and Typhoon Forecasts for 1961," by Maj Lloyd W. Vanderman, Tech Memo No. 20, USWB, Nat'l. Met. Center, January 1962, 4 pp. plus tables (Lithopr) *
3. "An Improved NWP Model for Forecasting the Paths of Tropical Cyclones," by Maj Lloyd W. Vanderman, September 1961. (Published in Mon. Wea. Rev., Vol. 90, No. 1, January 1962, pp. 19-22) *
4. "Description of the Dynamic Cloud Forecasting Model WOSK-100," January 1962, 11 pp. (Multi) *
5. "Atmospheric Measurements From Aircraft," by Maj James R. Smith, 26 January 1962, 28 pp. (Ozalid) *
- + 6. "Information on the New NMC Operational NWP Model," with attachment: NMC NWP Bulletin No. 34, and USWB covering memorandum, 28 February 1962, 15 pp. (Multi) *
- + 7. "Catalog of Computer Programs, September 1959 through February 1962," (Continuing), 68 pp. (Multi), plus "Revisions" I through VIII; "Correction to 3 Wea Wg Identification Numbers," 10 February 1961; "Additional Data," 22 January 1962, (Multi) *
- 7a. "Agenda for Computer Techniques Development Meeting 19-21 February 1962," 40 pp. (Multi) *
8. "Detachment Quality Assistance Program," February 1962, 16 pp. *
9. "Atlantic Tropical Cyclone Operations, 1962 Season," 2 March 1962, 4 pp. plus Attachment 1. (Multi) *
10. "Space-Age Education for Air Force Weather Officers," by Brig Gen Normal L. Peterson. (Published in Bull. Amer. Met. Soc., Vol. 43, No. 3, March 1962, pp. 79-82) *
- + 11. "B-58 Flight Planning Wind Aid," by Leonard W. Snellman, 10 April 1962, 5 pp. (Multi) *
12. "On Transformation of Kinetic Energy Between the Vertical Shear Flow and the Vertical Mean Flow in the Atmosphere," by A. Wiin-Nielsen, February 15, 1962 (Typescr) (Published in Mon. Wea. Rev., Vol. 90, No. 8, August 1962, pp. 311-323) *

SECTION A: ADDENDUM1955Item No.

24. "Reduction of Truncation Errors in the Computation of Geostrophic Advection and Other Jacobians," by Maj Philip D. Thompson, Tech Memo No. 1, JNWPU, 9 January 1955, 16 pp. (Multi) *
25. "Reduction of Truncation Errors in the Computation of Geostrophic Vorticity, the Laplacian Operator and Its Inverse," by Maj Philip D. Thompson, Tech Memo No. 2, JNWPU, 8 February 1955, 9 pp. (Multi) *
26. "An Iterative Method for Solving an Elliptic Equation With Variable Coefficients And its Convergence Criterion," by Maj Philip D. Thompson, Tech Memo No. 5, JNWPU, 8 March 1955, 10 pp. (Multi) *

1956Item No.

31. "A Two-Parameter Nongeostrophic Model Suitable for Routine Numerical Weather Forecasting," by Lt Col Philip D. Thompson, Tech Memo No. 11, JNWPU, 18 July 1956, 14 pp. (Multi) *
32. "The Distribution of Temporal Wind Variation," by W. C. Spreen, presented at AMS Meeting, Asheville, N. C., 1 November 1956. (Not reproduced)

1957Item No.

28. "Wind Variability," by Maj Hugh W. Ellsaesser, first draft of AWS Technical Report, 1957, 74 pp. (Ditto) plus Appendices and figs. *

1958Item No.

26. "Numerical Prediction of Dynamic Constant-Pressure Trajectories," by Lt Cols Charles L. Bristor, James E. Caskey, Jr., Harold B. Harshbarger, and Fred D. White, USAFRes, May 1958, 33 pp. (Typescr) *

1960Item No.

32. "On the Diagnostic Computations of Atmospheric Heat Sources and Sinks and the Generation of Available Potential Energy," by A. Wiin-Nielsen and J. A. Brown, November 1960. (Published in Proc. Int. Symp. on Numerical Weather Prediction, Tokyo, November 1960, Tokyo, 1962)
33. "On the Distribution of Temperature Relative to Height in Stationary Planetary Waves," December 1960. (Published in Tellus, Vol. 13, No. 2, May 1961, pp. 127-139) *
34. "The Relation Between Non-Adiabatic Heating and the Errors of Numerical Forecasts," by Lt Col Donald E. Martin. Proc. Int. Symp. on Numerical Weather Prediction, Tokyo, November 1960. (Published by the Meteorological Society of Japan, March 1962, pp. 283-296) *

SECTION A (Cont'd)

1961

Item No.

21. "A Note on the Behavior of Very Long Waves in Simple Baroclinic Models," by
A. Wiin-Nielsen, Journ. of Met., Vol. 18, No. 2, April 1961, pp. 204-207) *

SECTION B: AIR WEATHER SERVICE MANUALS

(Items in stock marked by "+".)

AWS Manuals:

- 15-21 "Informal Classification and Reporting of Weather Specialists," August 1948, 49 pp. (Mimeogr) * (Superseded by AWSM 39-1, 1950)
- 26-1 "Manpower Policy and Criteria," 1 July 1957. (Superseded by AWSM 26-1, March 1959)
- 26-1 "Manpower Policy and Criteria," March 1959, 42 pp. (Lithopr) * (Superseded by AWSM 26-1, February 1960)
- + 26-1 "Policy and Criteria," February 1960, 81 pp. (Lithopr) *
+ Change AWSM 26-1A, 1 December 1960.
- 26-2 "Manpower Allocation System," January 1958, 16 pp. (Multi) * (Superseded by AWSM 26-2, October 1958)
- 26-2 "Manpower Allocation Manual," 15 October 1958. Change AWSM 26-2A, 19 February 1959. (Superseded by AWSM 26-2, 6 May 1960)
- 26-2 "Allocation System," 6 May 1960, 59 pp. (Lithopr) *
- + 26-3 "Manpower Management," 1 April 1959, 39 pp. (Lithopr) *
+ Change AWSM 26-3A, 9 June 1960; Change AWSM 26-3B, 1 December 1960;
+ Change AWSM 26-3C, 1 September 1961. *
- + 28-1 "(U) Wartime Policies and Procedures," 9 March 1962 (SECRET)
- + 39-1 "Informal Classification of Airmen Weather Specialists," May 1950. (Superseded AWSM 15-21) (ATI-86083) (Rescinded, January 1952)
- 50-1 "Radiological Defence for Weather Forecasters," 1 August 1950, 50 pp. (Letterpress) * (Rescinded 1961)
Change AWSM 50-1A, 21 August 1951, 6 pp. (Multi) * (Rescinded 1961)
- 50-2 "Training Course," 15 February 1952, 23 pp. (Multi) * (Superseded by AWSM 50-2, 18 March 1958)
- 50-2 "WB-50 Aircrew Training," 15 March 1958. (Superseded by AWSM 50-2, 15 June 1959)
- 50-2 "WB-50 Aircrew Training," 15 June 1959.
Change AWSM 50-2A, 5 February 1960. (Superseded by AWSM 50-2A, 23 February 1961)
+ Change AWSM 50-2A, 23 February 1961.
+ Change AWSM 50-2B, 1 January 1962.
- + 50-3 "WB-50 Maintenance Training," 1 September 1960.
- + 50-16 "Meteorological Equipment Maintenance Training," 15 February 1962.
- 55-1 "Coding Snow Reports," November 1949. (Rescinded 1951?)
- 55-1 "AWS Reconnaissance Operations Manual," 31 May 1954.
Change AWSM 55-1A, 1 July 1954.
(Superseded by AWSM 55-1, 1 January 1957)

SECTION B (Cont'd)AWS Manuals (Cont'd)

- 55-1 "AWS Weather Reconnaissance Operations," 1 January 1957, 75 pp. (Multi) *
(This manual superseded: AWSM 55-1, 31 May 1954, as amended; AWSR 55-38, 4 October 1955, as amended; AWSR 55-10, 26 October 1956; AWSR 55-44, 19 November 1954)
Change 55-1A, 20 March 1957. (Multi) *
- 55-1 "AWS Weather Reconnaissance Operations," 20 May 1958, 81 pp. plus Appendices (Multi) * (Superseded by AWSM 55-1, April 1959)
- 55-1 "Weather Reconnaissance Operations," 15 April 1959. *
Change AWSM 55-1A, 31 July 1959;
Change AWSM 55-1B, 16 October 1959;
Change AWSM 55-1C, 9 November 1959;
Change AWSM 55-1D, 11 January 1960;
Change AWSM 55-1E, 31 March 1960;
Change AWSM 55-1F, 1 August 1960;
Change AWSM 55-1G, 3 January 1961;
Change AWSM 55-1H, 18 September 1961;
Change AWSM 55-1I, 5 January 1962;
Change AWSM 55-1J, 15 April 1962.
- 55-2 "Coding Ice Reports," November 1949. (Rescinded 1952)
- 55-2 "Air Weather Service Flight Engineers Manual," 15 April 1954. (Rescinded 1956?)
Change 1, AWSM 55-2, 1 July 1954 (Rescinded 1956)
- + 55-3 "Guide for Chief Observers," 1 November 1955, 75 pp. (Lithopr) *
- 55-4 "Instructions for Use of Track Charts for Recording Ice Observations," February 1950. (Rescinded 1951)
- 55-4 "AWS Flight Section Operations," 15 January 1957.
Change AWSM 55-4A, 21 June 1957.
Change 55-4B, 29 November 1957.
(Superseded by AWSM 55-4, 1 September 1960)
- 55-4 "Flight Section Operations," 1 September 1960. (Rescinded 1961)
- 55-5 "AWS Flight Folders," 1 August 1951, 15 pp. (Multi) (ATI-116639) *
- 55-5 "Flight Folders," 1 March 1954. (AD-139678)
Change AWSM 55-5A, 1 July 1954, 2 pp. (Multi) *
Change AWSM 55-5B, 15 March 1956, 3 pp. (Multi) *
(Superseded by AWSM 55-5, 1 August 1957)
- + 55-5 "Flight Folders," 1 August 1957, 18 pp. (Lithopr) * (AD-139678)
- + 55-6 "Operation and Utilization of the AN/CPS-9 Radar," 1 April 1955, 67 pp. (Multi) *
+ Change AWSM 55-6A, 1 June 1957.
- 55-7 "Commander's Guide for Air Weather Service Detachments," 1 December 1958, 68 pp. (Lithopr) * (Superseded by AWSM 55-7, February 1960)

SECTION B (Cont'd)AWS Manuals (Cont'd)

- 55-7 "The Detachment Commander," 15 February 1960, 80 pp. (Lithopr) * (Superseded by AWSM 55-7, March 1962)
- + 55-7 "The Detachment Commander," 23 March 1962, 16 pp. (Letterpress) *
- 62-1 "The AWS Program for Aircraft Accident Prevention," 1 July 1956.
(Superseded by AWSUP 1, 9 March 1961, to MR 61-1)
- 62-5 "Analysis, Evaluation, and Prevention of Weather Factor Accidents,"
1 March 1956, 37 pp. (Multi) * (Superseded by AWSM 62-5, 1 March 1960)
- + 62-5 "Weather Factor Accidents, Reporting-Investigating-Preventing," 1 March
1960, 13 pp. (Lithopr) *
+ Change AWSM 62-5A, 16 May 1960.
+ Change AWSM 62-5B, 26 April 1962.
- 66-1 "Preventive Maintenance Guide," April 1951, 49 pp. (Multi) * (ATI-114274)
(Rescinded 1953)
- 66-2 "AWS Reconnaissance Aircraft Maintenance Manual," 1 July 1953.
Change AWSM 66-2A, August 1953.
Change AWSM 66-2B, August 1954.
(Superseded by AWSM 66-2, 1 July 1957)
- + 66-2 "Reconnaissance Aircraft Maintenance Manual," 1 July 1957, in loose-leaf
fabrikoid binder, incl. many revised pages 1957 to 1962. (Multi) *
- 86-1 "The System for Programming, Funding and Installation of Fixed Meteorological
Facilities on Air Force Bases," 1 April 1957, 13 pp. (Multi) *
(Rescinded 1958)
- 105-0-1 "Constant Pressure Analysis and Forecasting Manual," January 1948, 90 pp.
(Lithopr) * (Redesignated as AWSM 105-12, January 1948) (Rescinded
1950)
- 105-2 Part 2, "Weather Message Contents Handbook, ZI and Caribbean Area,"
December 1955. (Superseded by AWSM 105-2, Part 2, January 1957)
Part 2, Revision #1, 1 February 1956.
Part 2, Revision #3, 1 April 1956.
Part 2, Revision #5, 1 July 1956.
Part 2, Revision #6, 1 August 1956.
Part 2, Revision #7, 1 September 1956.
- 105-2 Part 2, "Weather Message Contents Handbook, ZI, Caribbean Area and So.
America," 1 January 1957. (Superseded by AWSM 105-2, Part 2, 1 July
1958)
Part 2, Revision #1, 4 January 1957.
Part 2, Revision #2, 1 March 1957.
Part 2, Revision #3, 1 April 1957.
Part 2, Revision #4, 1 August 1957.
Part 2, Revision #5, 25 September 1957.
Part 2, Revision #6, 10 October 1957.
Part 2, Revision #7, 15 March 1958.

SECTION B (Cont'd)

AWS Manuals (Cont'd)

- 105-2 Part 2, "Weather Message Contents Handbook ZI and Caribbean Area,"
 1 July 1958.
 Revision #1, 15 August 1958.
 Change B, 2 December 1958.
 Change C, 1 November 1958.
 Change E, 1 March 1959.
 Change F, 15 March 1959.
 Change G, 30 March 1959.
 Change H, 15 April 1959.
 Change I, 5 May 1959.
- 105-2 Part 3, "East Canada, Greenland and North Atlantic Area," December 1955.
- 105-2 Part 3, "East Canada, Greenland and North Atlantic Area," 1 January 1957.
- 105-2 Part 4, "Europe, North Africa and Middle East Area," December 1955.
- 105-2 Part 4, "Europe, North Africa and Middle East Area," 1 January 1957.
- 105-2 Part 5, "Alaskan Area," 1 January 1957.
- 105-2 Part 6, "Pacific Ocean and Far East Area," 1 January 1957.
- 105-2 Part 7, "Alaskan Area," December 1955.
- 105-2 Part 8, "Pacific Ocean and Far East Area," December 1955.
- 105-2 Vol. I, "Weather Communications," 10 April 1961.
 Change 105-2A, Vol. I, 12 March 1962.
- 105-2 Vol. II, "Weather Message Contents Manual," 1 July 1959.
 (This manual supersedes AWSM 105-2, Part 2, 1 July 1958 and Changes)
 Change 105-2A, Vol. II, 10 February 1960.
 Change 105-2B, 10 January 1961.
 Change 105-2C, 25 August 1961.
- 105-2 Vol. III, "Weather Message Contents Manual," 1 September 1959.
- 105-2 Vol. IV, "Weather Message Contents Manual," 1 May 1960.
- 105-2 Vol. V, "Weather Message Contents Manual," 1 October 1959.
- 105-2 Vol. VI, "Weather Message Contents Manual," 24 August 1959.
- + 105-3 "Applied Military Climatology," 1 August 1961, 28 pp. (Letterpress) *
 (AD-262891)
- 105-5 "Rawinsonde Observations (Interim Edition)," 1 April 1959. (Superseded
 Weather Service Manual 105-101-1, and Changes 1, 2, 3, 4) (Rescinded
 1960?)

SECTION B (Cont'd)AWS Manuals (Cont'd)

- 105-6 "Coding Instructions for CAW-C Code," 1st Ed. October 1949, 26 pp. (Mimeogr) * Revision #1, Pen and Ink Changes attached, 26 January 1950, 1 p. (Mimeogr) * (Superseded by AWSM 105-6, February 1951)
- 105-6 "CAW-C Code," February 1951, 49 pp. plus Appendices and Pen and Ink Changes, 1 April 1951 (Multi) * (ATI-114278) (Superseded by AWSM 105-34, 1 November 1951)
- 105-7 "Russian Weather Codes (1949-1950)," 1st Ed. October 1949, 68 pp. (Mimeogr) * Amendment #1, 1 November 1950. (Superseded by AWSM 105-7, May 1951)
- 105-7 "Russian Weather Codes," May 1951, 80 pp. (Multi) with Amendment #1, 1 July 1951; Amendment #2, 15 July 1951; Amendment #3, 7 March 1952; Amendment #4, 10 August 1952. * (Rescinded 1956)
- 105-8 "Height Determination from Aircraft Reports (POMAR)," January 1950, 12 pp. (Mimeogr) * (ATI-77057) (Rescinded 1956)
- + 105-10 "Use of Asynoptic Data in Analysis and Forecasting," 11 March 1960, 27 pp. (Lithopr) * (Formerly AWSM 105-128-1) (PB 147788)
- 105-12 "Constant Pressure Analysis and Forecasting Manual," January 1948, 90 pp. (Letterpress) * (Formerly AWSM 105-0-1, not distributed) (Rescinded, 1950)
- 105-15 "Computation of Altimeter Setting and Sea-Level Pressure from Station Pressure," 1948. Revised 1949. (Superseded by AWSM 105-15, September 1950)
- 105-15 "Barometry," September 1950, 38 pp. (Lithopr) * (ATI-114167)
Change 105-15A, 1 December 1950. (To be superseded by WBAN Manual)
- 105-16 "US Weather Analysis Code," (With Rev. #1), December 1949. (Superseded by AWSM 105-16, March 1951)
- 105-16 "Weather Analysis Codes," March 1951, 63 pp. (Lithopr) * (ATI-114168)
(Superseded by AWSM 105-16, April 1953)
Change AWSM 105-16A, 22 January 1952, 1 p. (Multi) *
- 105-16 "Weather Analysis Codes," April 1953, 63 pp. plus Appendix 2. (Multi) *
(Superseded by AWSM 105-24, 1 June 1961)
- 105-17 "Utilization of Artillery Rawinsonde Data," January 1951, 9 pp. (Multi)
(ATI-114169) * (Superseded by AWSM 105-17, September 1955)
- + 105-17 "Utilization of Artillery Rawinsonde Data," September 1955, 13 pp. (Lithopr) * (ATI-114169) *
- 105-20 "Radiosonde and Rawinsonde Code," January 1951, 56 pp. (Multi)
(ATI-95511) * (Superseded by AWSM 105-20, July 1952)
Change AWSM 105-20A, 1 August 1951.
Change AWSM 105-20B, 15 October 1951. *
Change AWSM 105-20C, 1 November 1951. *

SECTION B (Cont'd)AWS Manuals (Cont'd)

- 105-20 "Radiosonde and Rawinsonde Code," July 1952, 58 pp. (Multi) * (Rescinded 1956)
 Change AWSM 105-20A, 1 September 1952, 2 pp. *
 Change AWSM 105-20B, 14 November 1952, 1 p. *
 Change AWSM 105-20C, 15 January 1953, 6 pp. *
 2058 AWW Supplement No. 1, 15 January 1953, 5 pp.
 Change AWSM 105-20D, 1 May 1954.
 (Rescinded 1956)
- 105-21 "Upper Wind Code," February 1950, 14 pp. (Multi) (ATI-114515) *
 Amendment No. 1, 1 December 1950; Amendment No. 2, 9 March 1951.
 (Superseded by AWSM 105-21, July 1952)
- 105-21 "Upper Wind Code," 1 July 1952, 22 pp. (Letterpress) * (Rescinded 1955)
 Change AWSM 105-21A, 15 October 1952, 2 pp. *
 Change AWSM 105-21B, 1 July 1952.
 (Rescinded 1955)
- 105-22 "Preparation of Weather Maps and Charts," June 1950.
 Amendment #1, 15 September 1950; Amendment #2, 1 February 1951;
 Amendment #3, 5 May 1951. (Superseded by AWSM 105-22, October 1953)
- 105-22 "Preparation of Weather Maps and Charts," 1 October 1953, 77 pp.
 (Lithopr) * (Superseded by AWSM 105-22, 1 August 1955)
- 105-22 "Preparation of Weather Maps and Charts," 1 August 1955, 57 pp.
 (Lithopr) plus charts. * (Superseded by AWSM 105-22, April 1960)
 Change AWSM 105-22A, 1 July 1956, 8 pp. *
 Change AWSM 105-22B, 15 January 1957, 5 pp. *
 Change AWSM 105-22C, 1 June 1957, 2 pp. *
 Change AWSM 105-22D, 15 February 1958, 1 p. *
- + 105-22 "Preparation of Weather Maps and Charts," 1 April 1960, 30 pp. (Lithopr)*
 + Change AWSM 105-22A, 12 December 1960, 2 pp. *
 + Change AWSM 105-22B, 12 June 1961.
- 105-23 "Dropsonde Observations," January 1951, 28 pp. (Multi) *
 Amendment #1, 2 May 1951 (AD-93538) (Superseded by AWSM 105-23, March 1952)
- 105-23 "Dropsonde Observations," 3 March 1952, 33 pp. (Multi) * (Superseded by AWSM 105-23, March 1956)
 Change AWSM 105-23A, 15 December 1952, 6 pp. (Multi) *
 Change AWSM 105-23B, 15 December 1952, 1 p. (Multi) *
 Change AWSM 105-23C, 15 December 1952, 1 p. (Multi) *
- 105-23 "Dropsonde Observations," 1 March 1956, 92 pp. (Lithopr) * (AD-93538)
 (Superseded by AWSM 105-1, 1 June 1962)
 Change AWSM 105-23A, 15 March 1957.
 AWS Interim Change 1, 8 September 1959.
 Change AWSM 105-23B, 15 June 1960, 1 p. (Multi) * (This change superseded AWS Interim Change 1, 8 September 1959)

SECTION B (Cont'd)AWS Manuals (Cont'd)

- 105-24 "Aeronautical Meteorological Codes," 1 September 1950, 37 pp. (Lithopr);
Amendment No. 1, 1 December 1951, 3 pp. (Multi) *
Amendment No. 2, 15 May 1952, 2 pp. (Multi) *
(Superseded by AWSM 105-24, August 1954)
- 105-24 "Aeronautical Meteorological Codes," 3d Ed., 1 August 1954, 77 pp. (Multi)
(AD-51722) * (Superseded by AWSM 105-24, June 1961)
Change AWSM 105-24A, 1 December 1954, 4 pp. (Multi) *
Change AWSM 105-24B, 15 June 1955, 5 pp. (Multi) *
Change AWSM 105-24C, 1 December 1955, 18 pp. (Multi) *
Change AWSM 105-24D, 20 February 1957, 2 pp. (Multi) *
- + 105-24 "Aeronautical Meteorological Codes," 1 June 1961, 67 pp. (Lithopr) *
(This manual superseded: AWSM 105-16, April 1953; AWSM 105-24, 1 August 1954, incl. Changes thereto; AWSM 105-25, April 1957, Change A, February 1959; Change AWSM 105-25A, 15 January 1962; Change AWSM 105-25B, 13 February 1962.)
- 105-25 "AWS Terminal Forecast (TFAWS) Code," February 1951, 7 pp. with Addendum No. 1, 1 July 1951, 2 pp. (Multi) (ATI-114170) * (Superseded by AWSM 105-25, February 1952)
- 105-25 "AWS Terminal Forecast (TFAWS) Code," February 1952, 10 pp. (Multi) *
(Superseded by AWSM 105-25, July 1954)
Change 105-25A, 25 July 1952, 1 p. (Multi) *
- 105-25 "AWS Terminal Forecast (TFAWS) Code," 1 July 1954, 11 pp. (Multi) *
(PB 146947) (Superseded by AWSM 105-25, April 1957)
Change AWSM 105-25A, 1 November 1954, 2 pp. (Multi) *
Change AWSM 105-25B, 1 February 1955, 3 pp. (Multi) *
Change AWSM 105-25C, 15 February 1956.
- + 105-25 "AWS Terminal Forecast (TFAWS) Code," 1 April 1957, 10 pp. (Multi) *
(AD-128330) (Superseded by AWSM 105-24, 1 June 1961)
+ Change AWSM 105-25A, 11 February 1959, 1 p. (Lithopr) *
- 105-26 "High Level Isotach Analysis," February 1951, 23 pp. (Multi) incl. charts. * (ATI-96704) (Rescinded August 1962)
- 105-27 "Radar Weather Observations," 1 April 1958, 22 pp. (Lithopr) * (Superseded by AWSM 105-27, June 1959)
Change AWSM 105-27A, 29 May 1958.
Change AWSM 105-27B, 1 August 1958.
- 105-27 "Radar Weather Observations," 1 June 1959, 19 pp. (Lithopr) * (This manual superseded AWSM 105-27, 1 April 1958, incl. Change A and B, 1958, and AWSM 105-28, 1 October 1955) (Superseded by AWSM 105-27, February 1962)
- + 105-27 "Radar Weather Observations," 20 February 1962, 27 pp. (Letterpress) *

SECTION B (Cont'd)AWS Manual (Cont'd)

- 105-28 "RAREPS," February 1951, 11 pp. (Multi) (ATI-114271) * (Superseded by AWSM 105-28, July 1952)
 Amendment No. 1, 1 June 1951, 15 pp. (Multi) *
 Amendment No. 2, 2 July 1951.
 Amendment No. 3, September 1951, 1 p. (Multi) *
 Amendment No. 4, 1 October 1951, 1 p. (Mimeogr) *
- 105-28 "RAREPS," July 1952, 26 pp. (Multi) plus tables. * (Superseded by AWSM 105-28, October 1955)
 Change AWSM 105-28A, 2 March 1953, 2 pp. (Multi) *
 Change AWSM 105-28B, 1 June 1957, 2 pp. plus revised pages. *
- 105-28 "RAREPS," 1 October 1955, 60 pp. (Multi)
 Change AWSM 105-28A, 10 April 1956.
 Change AWSM 105-28B, 1 June 1957.
 (This manual was superseded by AWSM 105-27, 1 June 1959)
- 105-29 "Sferics Code," March 1951, 10 pp. (Multi) (ATI-114372) * (Superseded by AWSM 105-29, September 1953)
 Change AWSM 105-29A, 22 October 1952, 2 pp. (Multi) *
- 105-29 "Sferics Code," 1 September 1953, 16 pp. (Multi) *
 Change AWSM 105-29A, 1 April 1960, 1 p. (Multi) *
- 105-30 "(U) Russian Weather Analysis Code," 1 April 1955, 30 pp. (CONFIDENTIAL)* (Rescinded 1958)
- 105-31 "Weather Reconnaissance Observations," 31 July 1951, 47 pp. (Lithopr) * (AD-125215) (Superseded by AWSM 105-31, December 1959)
 Change AWSM 105-31A, 20 January 1952, 5 pp. (Multi) *
 Change AWSM 105-31B, 1 December 1953, 5 pp. (Multi) *
 Change AWSM 105-31C, 1 March 1954, 2 pp. (Multi) *
- 105-31 "Weather Reconnaissance Observations," 1 December 1959, 87 pp. (Lithopr) * (Superseded by AWSM 105-1, 1 June 1962)
 Change AWSM 105-31A, 13 July 1960. *
- 105-32 "Use of Gradient Wind Scales," July 1951. (Superseded by AWSM 105-32, September 1951)
- + 105-32 "Use of Gradient Wind Scales," 30 September 1951, 33 pp. (Lithopr) *
 + Change AWSM 105-32A, 13 May 1952, pp. 23-33. (Lithopr) *
- 105-33 "Radioactivity Ground Fall-Out Plot," 1 July 1951. (ATI-114166) (Superseded by AWSM 105-33, June 1952)
- 105-33 "Radioactivity Fall-Out and Radex Plots," 2 June 1952, 52 pp. (Lithopr) * (Superseded by AWSM 105-33, October 1954)
- 105-33 "Radioactivity Fall-Out and Radex Plots," 15 October 1954, 28 pp. (Multi) * (AD-52761) (Superseded by AWSM 105-33, June 1956)
 Change AWSM 105-33A, 1 November 1954, 7 pp. (Multi) *

SECTION B (Cont'd)AWS Manuals (Cont'd)

- + 105-33 "Radioactivity Fall-Out Plots," 1 June 1956, 39 pp. (Multi) *
 - + Change AWSM 105-33A, Appendix B, 15 March 1957, 2 pp. (Lithopr) *
 - + Change AWSM 105-33B, 1 May 1958, 1 p. (Multi) *
 - + Change AWSM 105-33C, 15 July 1958, 1 p. (Lithopr) *
- 105-34 "RECCO Code," 1 November 1951, 51 pp. (Multi) * (This manual superseded AWSM 105-6, February 1951 and Amendment 1, April 1951) (Superseded by AWSM 105-34, August 1953)
- 105-34 "RECCO Code," 1 August 1953, 49 pp. (Multi) * (Superseded by AWSM 105-1, 1 June 1962)
 - Change 105-34A, 1 February 1954, 3 pp. (Multi) *
 - Change AWSM 105-34B, 1 April 1955, 1 p. (Multi) *
 - Change AWSM 105-34C, 1 June 1956, 7 pp. (Multi) *
 - Change AWSM 105-34D, 5 June 1959, 2 pp. (Multi) *
- + 105-35 "The Local-Area Surface Chart Its Preparation and Use," 29 January 1960, 78 pp. (Lithopr) * (AD-) (PB 146483)
 - + Change AWSM 105-35A, 15 April 1960, 6 pp. (Lithopr) *
 - + Change AWSM 105-35B, 15 September 1961, 13 pp. (Lithopr) *
- 105-37 "A Digest of Procedures Used by the Air Weather Service Severe Weather Warning (Thunderstorm) Center," 1 November 1952, 63 pp. (Lithopr) * (Superseded by AWSM 105-37, May 1956)
 - Change AWSM 105-37A, 15 February 1953, 9 pp. (Multi) *
- 105-37 "Severe Weather Forecasting," 1 May 1956, 147 pp. (Lithopr) * (PB 153659) (For sale Libr. Congr. \$7.50 ml, \$24.30 ph)
- + 105-38 "Use of Sferics in Analysis and Forecasting," 1 March 1953, 33 pp. (Lithopr) *
- 105-39 "Forecasting Icing," January 1953, 24 pp. (Lithopr) (AD-5014) * (PB 135392) (Superseded by AWSM 105-39, October 1960)
- + 105-39 "Forecasters' Guide on Aircraft Icing," 1 October 1960, 51 pp. (Lithopr)* (AD-245726) (PB 152977)
- 105-40 "Some Techniques for Deriving Objective Forecasting Aids and Methods," April 1953, 31 pp. (Lithopr) * (AD-17730) (Superseded by AWSM 105-40 Rev., April 1955)
- 105-40(Rev) "Some Techniques for Deriving Objective Forecasting Aids and Methods," April 1955, 51 pp. (AD-74755) *
- 105-41 "Severe Weather Warnings," 1 February 1958, 30 pp. (Lithopr) * (Superseded by AWSM 105-41, June 1959)
 - Change AWSM 105-41A, 21 April 1958, 1 p. plus fig. *
 - Change AWSM 105-41B, 19 August 1958, 9 pp. (Lithopr) *
- 105-41 "Severe Weather Warnings," 1 June 1959, 24 pp. (Lithopr) * (Superseded by AWSM 105-41, May 1960)
 - Change AWSM 105-41A, 1 September 1959, 3 pp. (Lithopr) *

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- 105-41 "Severe Weather Warnings," 1 May 1960, 30 pp. (Lithopr) * (Superseded by AWSM 105-41, April 1961)
Change AWSM 105-41A, 15 July 1960.
Interim Change 1, 1 February 1961.
- + 105-41 "USAF Severe Weather Service," 15 April 1961, 24 pp. incl. illus. (Lithopr) * (AD-254384)
+ Change 105-41A, 8 July 1961, 1 p. (Lithopr) *
+ Change 105-41B, 23 August 1961, 1 p. (Multi) *
+ Change 105-41C, 25 August 1961, 1 p. (Multi) *
- 105-43 "Rawinsonde Records Checking," 1 March 1954, 18 pp. (Lithopr) * (Rescinded 1961)
Change AWSM 105-43A, June 1959. (Rescinded 1961)
- 105-44 "General Aspects of Fog and Stratus Forecasting," April 1954, 99 pp. (Lithopr) (AD-33689) * (PB 114414)
2d Wea Wg Supplement No. 1, to AWSM 105-44, "Weather, General Aspects of Fog and Stratus Forecasting — Objective Visibility Study, Rhein Main Air Base," 10 May 1954, 32 pp. (AD-64353)
2d Wea Wg Supplement No. 2, to AWSM 105-44, "Weather, General Aspects of Fog and Stratus Forecasting — Application of the Rhein Main Visibility Study to an Operational Problem," 10 May 1954, 32 pp. (AD-64354)
- + 105-45 "Wind Plotting Set A-1," 1 August 1954, 23 pp. (Lithopr) *
- + 105-46 "Meteorological Uses of the E6D Computer," November 1954, 13 pp. (Multi) (AD-74192) * (PB 116557)
- 105-47 "Constant-Pressure Trajectories," September 1956, 86 pp. (Multi) (AD-117710) *
- + 105-47 "Constant-Pressure Trajectories," September 1956, 86 pp. (Reprint with corrections of typographical errors, 1958. (Multi) (AD-122399) *
- + 105-48 Vol. I, "The Practical Aspects of Tropical Meteorology," September 1955, 195 pp. (Lithopr) (AD-) (PB 122153)
+ Change AWSM 105-48A, Vol. I, 26 January 1961.
- + 105-48 Vol. II, "The Practical Aspects of Tropical Meteorology," 26 January 1961. (AD-255348) (For sale by OTS, Price \$12.50)
- 105-49 "4-D Analysis and Forecasting Procedures for Optimum Flight Planning," January 1956, 51 pp. (Lithopr) * (Rescinded 1959) (PB 119995)
Change AWSM 105-49A, 1 November 1957, 19 pp. * (Rescinded)
- + 105-50/1 "Forecasting Upper-Level Winds," Part I: "Forecasting by Vorticity Techniques," June 1954, 50 pp. (Letterpress) (AD-47587) * (PB 115662)
- + 105-50/1A Appendix B: "Vorticity — An Elementary Discussion of the Concept," August 1956, 27 pp. (Lithopr) (AD-117709, or AD-117589) * (PB 123671)
- 105-50/2 "Forecasting Upper-Level Winds, Part Two: Differential Analysis in the Troposphere," August 1954, 35 pp. (Letterpress) *
Change AWSM 105-50/2A, 8 November 1960, 8 pp. (Letterpress) *

SECTION B (Cont'd)AWS Manuals (Cont'd)

- + 105-51/1 "Terminal Forecasting, Part I: Extrapolation Techniques for Short-Period Terminal Forecasting," January 1957, 38 pp. (Lithopr) (AD-125140) * (PB 126735)
- + 105-52 "Forecasting for Aerial Refueling Operations at Mid-Tropospheric Altitudes," July 1957, 110 pp. (Lithopr) * (PB 133449) (AD-283404)
- 105-53 "Instructions for the Use of Vector Computers AWS WPC 10-7 and AWS WPC 10-8," August 1957. (AD-146324)
- + 105-54 "Forecasting Altimeter Settings," 1 September 1960, 38 pp. (PB 152042)
- + 105-55 "Concept and Use of Centrally Prepared Weather Charts," 28 April 1961, 98 pp. (Lithopr) (AD-256923) *
- 105-100 "Forecasting Jet Aircraft Condensation Trails," 1 April 1952, 17 pp. (Multi) (AD-40037) * (Superseded by AWSM 105-100 Rev., August 1956)
- 105-100 (Rev.) "Forecasting Jet Aircraft Condensation Trails," August 1956, 17 pp. (Multi) (AD-108232) (Superseded by AWSM 105-100, March 1960) (PB 123672) *
- + 105-100 "Forecasting of Aircraft Condensation Trails," 11 March 1960, 21 pp. (Lithopr) *
- 105-101/1 "Rawinsonde Observations," 1 January 1948.
Changes 1, 2, 3, 4. (Superseded by AWSM 105-5, April 1949)
- 105-123 "Weather Briefing," June 1951, 24 pp. (Lithopr) *
- 105-124 "Skew T-Log p Diagram, AWS WPC 9-16," 1 September 1952, 52 pp. (Multi) (ATI-169015) * (Superseded by AWSM 105-124, Vol. I, March 1961)
Change AWSM 105-124A, 5 September 1952, 3 pp. *
Change AWSM 105-124B, 1 August 1953, 5 pp. *
- + 105-124 "Use of the Skew T Log p Diagram in Analysis and Forecasting, Vol. I: Radiosonde Analysis," March 1961, 139 pp. (Lithopr) *
- 105-125 "AWS WPC 9-21," 1 February 1953, 9 pp. (Multi) (AD-5015) * (Rescinded 1958)
- 105-126-1 "Determination of Ballistic Quantities for Bombing Purposes," November 1947, 17 pp. (Letterpress) (ATI-85003) * (This manual was superseded by AWSM 340-5, November 1954)
- AAF 105-128-1 "Aircraft Weather Reconnaissance," September 1945, 218 pp. (Lithopr and Multi) * (This manual was redesignated AWSM 105-10, 1949) (ATI-70923) (Rescinded 1951)
- 123-1 "Inspection of Weather Detachments," 1 June 1959, 27 pp. (Lithopr) *
Change AWSM 123-1A, 23 October 1959, 2 pp. *
Change AWSM 123-1B, 15 March 1960, 4 pp. *
(Rescinded 1961)

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AWS Manuals (Cont'd)

- + 171-1 "Recurring Reports," 1 May 1959. (Rescinded 1961, and all Changes thereto)
 - + Change AWSM 171-1A, 1 July 1959.
 - + Change AWSM 171-1B, 1 September 1959.
 - + Change AWSM 171-1C, 1 November 1959.
 - + Change AWSM 171-1D, 1 January 1960.
 - + Change AWSM 171-1E, 1 March 1960.
 - + Change AWSM 171-1F, 10 March 1960.
- 171-1-1 "Recurring Reports," 1 July 1959. (Rescinded 1961, and Changes)
 - Change AWSM 171-1-1A, 1 September 1959.
 - Change AWSM 171-1-1B, 1 November 1959.
 - Change AWSM 171-1-1C, 1 January 1960.
 - Change AWSM 171-1-1D, 1 March 1960.
 - Change AWSM 171-1-1E, 1 April 1960.
 - Change AWSM 171-1-1F, 1 May 1960.
 - Change AWSM 171-1-1G, 10 June 1960.
 - Change AWSM 171-1-1H, 1 August 1960.
 - Change AWSM 171-1-1I, 1 September 1960.
 - Change AWSM 171-1-1J, 1 October 1960.
 - Change AWSM 171-1-1K, 1 December 1960.
- 174-2 "AWS Recurring Reports Manual," 1 June 1950. (Rescinded 1950)
- 174-2 "AWS Recurring Reports Manual," 25 September 1950. (Rescinded 1951)
- 174-2 "AWS Recurring Reports Manual," 25 January 1952. (Rescinded 1955?)
- 174-2 "AWS Recurring Reports Manual," 1 January 1956. (Rescinded 1958)
- 200-1 "(U) Intelligence Guide," July 1950 (SECRET) (Superseded by AWSM 200-1, August 1951)
- 200-1 "(U) Intelligence Guide," August 1951 (SECRET) (Superseded by AWSM 200-1, January 1954)
- 200-1 "(U) Intelligence Guide," 5 January 1954 (CONFIDENTIAL)
 - Change AWSM 200-1A, 1 August 1956. (Superseded by AWSM 200-1, 1 September 1959)
- + 200-1 "(U) Intelligence Guide," 1 September 1959 (CONFIDENTIAL)
- 340-5 "Determination of Ballistic Quantities for Bombing Purposes," November 1947. (ATI-85003) (Formerly 105-126-1) (Superseded by AWSM 340-5, November 1954) *
- 340-5 (Rev.) "Determination of the Ballistic Quantity 'Q' for Bombing," November 1954, 10 pp. (Multi) * (AD-89178) (Rescinded 1960)
- 345-1 "Instructions for Preparing Single-Grid Heading and Minimal Flight Plans," 1949. (Superseded by AWSM 345-1, November 1951)
- 345-1 Extract 1, "Instructions for Preparing Single Drift Correction and Minimal Flight Plans," February 1950, 13 pp. (Mimeogr) * (ATI-84998)

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AWS Manuals (Cont'd)

- 345-1 "Meteorological Aspects of Pressure-Pattern Flight," 5 November 1951,
44 pp. (Lithopr) * (Superseded by AWSM 345-1 Rev., December 1954)
Change AWSM 345-1A, September 1953, 1 p. *
- + 345-1 (Rev.) "Meteorological Aspects of Pressure Pattern Flight," December 1954,
63 pp. (Lithopr) (AD-72927) * (PB 117583)
- 345-1 (Rev.) Part 2 "Alignment Chart for Single-Drift Correction Computation,"
December 1954. (Extract from AWSM 345-1 (Rev.))

SECTION C: AIR WEATHER SERVICE TECHNICAL REPORTSAAFWS Technical Reports

- 55-1 "The Weather Utility of Radio Set AN/APQ-13," February 1946, 17 pp. (Lithopr) (ATI-66676) * (Rescinded May 1954)
- 55-2 "Preliminary Instructions for Storm Detection Ground Installation of AN/APQ-13A," February 1946, 22 pp. (Lithopr) * (Rescinded June 1949)
- 56-1 Redesignated AWS TR 55-3.
- 58-1 Redesignated AWS TR 55-4.
- 90-1 Redesignated AWS TR 335-5.

AWS Technical Reports

- 45-1 Redesignated AWS TR 200-1.
- 55-3 "Determination of Absolute Height and Wind for Aircraft Operations," September 1944, 99 pp. (Lithopr) (Formerly WD Report No. 708 (Rev), Redesignated AAFWS TR 56-1) (ATI-62748) *
- 55-4 "Use of the Radio Altimeter in Determining Wind and Drift While in Flight," December 1943, 12 pp. (Lithopr) (Formerly WD Report No. 638, Redesignated AAFWS TR 58-1) (ATI-74431) *
- 101-1 "Weather Forecasting for Radar Operations," March 1944, 61 pp. incl. figs. (Formerly WD Report No. 614) (ATI-114523) * (Rescinded May 1954)
- 105-1 "The Structure of the Local Winds in the Los Angeles Basin, California," September 1945, 30 pp. (Lithopr) incl. charts. (ATI-72493) *
- 105-2 "Streamline Analysis," March 1946. (Rescinded June 1949)
- + 105-2 "Wind Variability," by Maj Hugh W. Ellsaesser, 10 March 1960, 91 pp. (Lithopr) (AD-242199) *
- 105-3 "On Vertical Motion in the Atmosphere," November 1945, 86 pp. plus diagrams. (Typescr) (ATI-65132) *
 Contents:
 "Determination of the Field of Vertical Motion," by Robert G. Fleagle, et al., pp. 1-39.
 "A Descriptive Study of the Field of Vertical Motion in a Colorado Low," by Robert G. Fleagle, pp. 40-65.
 "Computation of Vertical Motion From Constant Pressure Charts," by James E. Miller, pp. 66-86.
- 105-4 "A Study of Waves in the Easterlies," prepared by Capt C. O. Durham, Lt E. A. Bryant, Lt J. W. Daane, D. N. Mills, and W. E. Wright, USAC Research Unit, 9th Weather Region, July 1945, 92 pp. (Typescr) plus figs. Revised and edited by Herbert Riehl, 1946 (ATI-82074) *
- 105-5 "Tables Equivalent Potential Temperature for the Standard Constant Pressure Surfaces," May 1946. (ATI-65136) *
- 105-6 "Critique of Verification of Weather Forecasts," prepared by Forecast Branch, Hq AAF, January 1944, 84 pp. (Lithopr) (Formerly WD Report No. 669) (ATI-70922) *

SECTION C (Cont'd)AWS Technical Reports (Cont'd)

- 105-7 "Final Report on the Use of Symmetry Points in the Pressure Curves for Long-Range Forecasting," by B. Haurwitz, March 1944, 7 pp. (Lithopr) (Formerly WD Report No. 709) (ATI-112490) *
- 105-8 "Preliminary Report on Cloud Conditions Over the North Atlantic January — March 1944," by 2/Lt A. W. Badanes, September 1944, 23 pp. (Lithopr) (Formerly WD Report No. 791) (ATI-65138) *
- 105-9 "A Rational Method of Constructing High Altitude Weather Maps," August 1944, 7 pp. (Lithopr) (Formerly WD Report No. 795) (ATI-72474) * (Rescinded September 1956)
- 105-10 "Preliminary Report of Meteorological Program at San Jose Island Panama," September 1944, 23 pp. (Lithopr) (Formerly WD Report No. 809) (ATI-72476) *
- 105-11 "Non-Frontal Cumulus Clouds on the North Atlantic Routes," January 1945, 16 pp. (Lithopr) (Formerly WD Report No. 884) (ATI-72849) *
- 105-12A "Preparation of a Classification Graph East Asia-West Pacific Synoptic Region January 1899 through June 1939, Part I," December 1944, 93 pp. (Lithopr) (Formerly WD Report No. 904) (ATI-65141) *
- 105-12B "Classification Graph East Asia-West Pacific Synoptic Region January 1899 through June 1939 (4 sheets in color) Part II," December 1944.*
- 105-13 "A Check List for Forecasting Southern California Stratus," prepared by AAF Research Weather Station, UCLA, 1944, 35 pp. (Mimeogr) (Formerly WD Report No. 928) (ATI-72495) *
- 105-14A "Preparation of a Classification Graph East Pacific Synoptic Region January 1899 through June 1939, Part I," February 1945. Revised May 1945, 89 pp. (Lithopr) (Formerly WD Report No. 943) (ATI-65147) *
- 105-14B "Classification Graph East Pacific Synoptic Region January 1899 through June 1939 (4 sheets in color) Part II," May 1945. *
- 105-15 "Analysis and Forecasting of Tropical Cyclones of 1944 in the Caribbean Sea and Western Atlantic Ocean, With the Aid of Aircraft Reconnaissance Reports and Rawins," May 1945, 30 pp. (Lithopr) (Formerly WD Report No. 962) (ATI-114522) *
- 105-16 "Direct Observational Methods for the Determination of Swell Characteristics From Aircraft," June 1945, 8 pp. (Lithopr) (Formerly WD Report No. 965) (ATI-70921) *
- 105-17 "Forecasting Tops of Non-Frontal Cumulus Clouds in Polar-Air Outbreaks Over the North Atlantic," September 1945, 44 pp. (Lithopr) (Formerly WD Report No. 971) (ATI-72846) *
- 105-18 "Computation of Approximate Ballistic and Differential Ballistic Winds Over Japan by Use of the Wind at Bombing Altitude," May 1945, 4 pp. (Mimeogr) (Formerly WD Report No. 882) (ATI-65129) *
- 105-19 "Visibilities Near and Above Berlin (Germany)," September 1942, 16 pp. (Formerly WD Report No. 185) * (Rescinded June 1949)
- + 105-19 "Catalogue of Predictors Used in Local Objective Forecast Studies," by Capt Charles S. Cushman, 15 July 1960, 85 pp. (Lithopr) (AD-242217) *
- 105-20 "The Relation Between Average Monthly Cloudiness and the Average Number of Clear and Cloudy Days," October 1942, 7 pp. (Typescr) (Formerly WD Report No. 227) (ATI-65125) *

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- 105-21 "Sky Brightness and Illumination Data for Scandinavia, European Russia and the Arctic," February 1943, 49 pp. (Formerly WD Report No. 300) * (Rescinded June 1949)
- 105-22 "Soil Trafficability in Military Operations," September 1943, 25 pp. (Lithopr) (Formerly WD Report No. 347 Revised) (Rescinded June 1949)*
- 105-23 "Simultaneous Ceilings at Reykjavik and Akreyri, Iceland," 1942, 2 pp. (Lithopr) (Formerly WD Report No. 507) * (Rescinded June 1949)
- 105-24 "Status and Methods of Long Range Forecasting," September 1943, 16 pp. (Lithopr) (Formerly WD Report No. 565) * (Rescinded June 1949)
- 105-25 "Study of Length of Record Needed to Obtain Satisfactory Climatic Summaries for Various Meteorological Elements," 19 August 1943, 12 pp. (Typescr) plus illus. (Formerly WD Report No. 588) (ATI-65128) *
- 105-26A "Short Range Forecast Verification Program," November 1943, 31 pp. (Lithopr) (Formerly WD Report No. 602) (ATI-29456) * (Rescinded May 1954)
- 105-26B "Short Range Forecast Verification Program," June 1944, 11 pp. (Lithopr) (Formerly WD Report No. 602) (ATI-72480) * (Rescinded May 1954)
- 105-27 "Ideal Station Spacing for Meteorology," November 1953, 4 pp. (Typescr) plus chart. (Formerly AFRTW Report No. 604) (ATI-65148) * (Rescinded May 1954)
- 105-28 "Clouds of the Aleutian Islands," November 1943, 29 pp. (Lithopr) (Formerly WD Report No. 605) (ATI-72475) *
- 105-29 "Interpretation of Weather Over the Pacific," June 1944. (Formerly WD Report No. 640) (ATI-72458)
- 105-30 "Forecasting by Statistical and Synoptic Extrapolation," prepared by Forecast Branch, Hq AAF, May 1944, 318 pp. (Lithopr) (Formerly WD Report No. 730) (ATI-114521) * (Rescinded September 1956)
- 105-31 "Meteorological Aspects of High-Altitude Flight," by Robert G. Stone, Weather Division, Hq AAF, December 1944, 28 pp. (Lithopr) (Formerly WD Report No. 847) (ATI-38611) (Rescinded September 1956) *
- 105-32 "Forecasting and Related Problems in China," prepared by Weather Division, Hq AAF, December 1944, 25 pp. (Mimeogr) (Formerly WD Report No. 863) (ATI-91843) *
- 105-33 "Synoptic Weather Associated With Rhine Floods," prepared by Weather Division, Hq AAF, December 1944, 65 pp. (Typescr) maps. (Formerly WD Report No. 864) (ATI-65140) *
- 105-34A-B "Weather and Climate of China — Parts A and B (Synoptic)," March 1945, 573 pp. (Formerly WD Report No. 890 A-B) (ATI-72446) *
- 105-34C "Weather and Climate of China — Part C (Climatic)," March 1945, 69 pp. (Formerly WD Report No. 890 C) (ATI-72446) *
- 105-35 "Regions in Germany of Orographic Lifting and Foehn With Northwesterly Gradient-Wind Flow and Regions of Orographic Lifting and Foehn With Southwesterly Gradient-Wind Flow," June 1945, 2 pp. (Ditto) plus maps. (Formerly WD Report No. 894) (ATI-72894) *

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- 105-36A-B "A Preliminary Report on the Synoptic Aspects of the Climate of Japan," August 1945, Part I, 100 pp., Part II, 145 pp. (Mimeogr) (Formerly WD Report No. 639) (ATI-70924) *
- 105-37 "Report on the Off-Season Operations of the Air Force Hurricane Office 1947-1948," July 1948, 43 pp. (Mimeogr) (ATI-59691) (PB 120356) *
- 105-38 "Short Range and Extended Forecasting by Statistical Methods," February 1948, 202 pp. (Lithopr) (Printed as 105-37 in error) (ATI-65126) (PB 123220) *
- 105-39 "Further Studies on Thunderstorm Conditions Affecting Flight Operations: Turbulence," March 1949, 31 pp. (Lithopr) (ATI-56149) (PB 123221) *
- 105-40 "Report on the 1948-49 Post-Analysis Program of the AF Hurricane Office," June 1949, 36 pp. (Mimeogr) plus figs. (ATI-67051) *
- 105-41 "Report on Project Albedo, Phase I," June 1949, 16 pp. (Mimeogr) (ATI-94442) *
- 105-42 "Report on Post-Analysis of Typhoons in the Western North Pacific 1947," July 1949, 32 pp. (Mimeogr) (ATI-63797) (PB 123222) *
- 105-43 "Report on the Typhoon Post-Analysis Program (1948-1949) of the North Pacific Typhoon Warning Service," August 1951, 60 pp. (Lithopr) (ATI-134899) *
- 105-44 "Preliminary Correlations of Synoptic and Winds Aloft Charts With High Winds on the Natal-Ascension Track," by T/Sgt A. W. Orr and Sgt S. Tomashefsky, 1945, 63 pp. (Mimeogr) incl. figs. (ATI-65137) *
- 105-45 "Forecasting Summer Fog at Shemya," prepared by Weather Central, 11th Weather Region, 1 June 1945, 54 pp. (Mimeogr) (ATI-65145) *
- 105-46 "Aircraft Icing Over Northwest Europe," by 1/Lt H. Ashley, 21st Weather Squadron, 2 June 1946, 15 pp. (Typescr) (ATI-65127) *
- 105-47 "Notes on Mountain Meteorology," February 1946 (Typescr) (ATI-65142) *
- Contents:
- "Briefing Aids Northwest Ferry Route," 33 pp. plus illus.
- "Lee of the Mountain Trough," 39 pp. plus charts.
- "Upper Air Techniques," 27 pp. plus charts.
- "Forecasting in the Northway Area," by Capt L. F. Haker, Regional Weather Central, 16th Weather Region, 33 pp.
- "Forecasting in the Watson Lake Area," by Capt F. F. Hooper, Regional Weather Central, 16th Weather Region, 28 pp.
- 105-48 "Study of Blowing Dust in the 19th Weather Region (North Africa-Middle East)," by Lt A. L. Sarvis, February 1945, 105 pp. (Mimeogr) (ATI-65154) *
- 105-49 "A Study of Harmattan Haze at Maiduguri, Nigeria," by Capt Thomas P. Condrion, December 1944, 13 pp. (Mimeogr) (ATI-65153) *
- 105-50 "The Meteorology of Central Africa," by Maj S. B. Solot, 19th Weather Region, November 1943, 130 pp. (Mimeogr) incl. figs., and revisions by author, November 1945. (ATI-65151) *
- 105-51 "An Application of Kinematic Analysis to Tropical Weather," by Earl C. Kindle, May 1945, 46 pp. (Mimeogr) (ATI-65134) *

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- 105-52 "Pilot Interviews: Composite Pirep of 7500 Trips Through the Equatorial Front," prepared by Research Section, 6th Weather Region, November 1944, 104 pp. (Lithopr) (ATI-65123) *
- 105-53A "Forecasting Manual Tripoli to Karachi — Part One: October-November-December," October 1944, prepared by Research Section, 19th Weather Region, 94 pp. (Mimeogr) (ATI-65143) *
- 105-53B "Forecasting Manual Tripoli to Karachi — Part Two: January-February-March," prepared by Research Section, 19th Weather Region, January 1945, 71 pp. (Mimeogr) (ATI-65143) *
- 105-53C "Forecasting Manual Tripoli to Karachi — Part Three: April-May-June," prepared by Research Section, 19th Weather Region, April 1945, 68 pp. (Mimeogr) (ATI-65143) *
- 105-53D "Forecasting Manual Casablanca to Karachi — Part Four: July-August-September," prepared by Research Section, 19th Weather Region, July 1945, 122 pp. (Mimeogr) (ATI-65143) *
- 105-54 "Analysis and Forecasting of Tropical Cyclones With Special Reference to the Atlantic Ocean," by Gordon E. Dunn, USWB, January 1944, reprinted by AAF Weather Wing, May 1944, 35 pp. (Multi) (ATI-65139) *
- 105-55 "Probability of Cloud Obstructing Vision During Bombing Run," by Maj N. Allen Riley, 10 November 1944, 11 pp. (Mimeogr) (ATI-65152) *
- 105-56 "Rain-Cloud Weather Reports Associated With the Frontal Passage of 17-20 December 1943 in Panama," November 1944, 51 pp. (Ditto) (ATI-65155) * (ASTIA cannot reproduce)
- 105-57 "Radar Storm Detection — Panama 1944," by 6th Weather Region, 1945, 122 pp. (Lithopr) (ATI-65133) *
- 105-58 "Pressure Tendency as an Aid in Single-Station Forecasting for Tropical Areas," March 1945, 14 pp. (Mimeogr) (ATI-65149) *
- 105-59A "The Utilization of 500 Millibar Charts in Forecasting for the China Area-Spring Season," by Capt Robert B. Orton, June 1945, 6 pp. (Mimeogr) plus charts. (ATI-65144) *
- 105-59B "The Paths and Characteristics of Migratory Anticyclones in Southeast Asia," by Capt Robert B. Orton, July 1945, 15 pp. (Mimeogr) plus maps. (ATI-83514) *
- 105-60 "A Wave-Front Method of Minimal Flight Planning," by D. T. Perkins, October 1949, 7 pp. (Mimeogr) plus illus. (ATI-78584) *
- 105-61 "An Analysis of the Sea Breeze in the Boston Area," June 1945, 78 pp. (Typescr) plus figs. (ATI-73177) *
- 105-62 "The Computation of Air Trajectories," December 1949.
- 105-62 "The Computation of Air Trajectories," June 1950, 30 pp. (Lithopr) (ATI-84239) *
- 105-63 Not issued.
- 105-64 "Radiosonde Observation Computation Tables and Diagrams," June 1950. (ATI-96124) (Rescinded May 1952)
- + 105-64 "Radiosonde Observation Computation Tables and Diagrams," (2d Ed.) 1 September 1952. (ATI-96124) *

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- 105-65 "List of Stations Reporting Pressures Reduced to Datum other than Mean Sea Level, Synoptic Code," October 1950, 31 pp. (Lithopr) (ATI-114520); Amendment No. 1, December 1950; Amendment No. 2, February 1951; Amendment No. 3, May 1951; Amendment No. 4, June 1951.
- 105-65 "List of Stations Reporting Pressures to Datum other than Mean Sea Level, Synoptic Code," 1 June 1952, 52 pp. (Lithopr) * (This report supersedes AWS TR 105-65, October 1950 and all amendments thereto)
- 105-65 "List of Stations Reporting Pressures to Datum other than Mean Sea Level, Synoptic Code," 1 November 1953.
Change AWS TR 105-65A, 1 May 1954. * (This report supersedes AWS TR 105-65, June 1952.)
- + 105-65 "List of Stations Reporting Pressures to Datum other than Mean Sea Level, Synoptic Code," 1 June 1958, 101 pp. (Lithopr) (AD-203353) * (This report supersedes all previous issues and changes thereto)
Change AWS TR 105-65A, 8 August 1960, 7 pp. (Multi) *
- 105-66 "Thickness Evaluation Charts and Tables," December 1950, 12 pp. (Lithopr) (ATI-93532); Amendment #1, April 1951. (See AWSM 105-50/2) (PB 107769) *
- 105-67 "The Frontology of North China," September 1945, 91 pp. (Typescr) plus illus. (ATI-83513) *
- 105-68 "Dew Point Charts," January 1951, 5 pp. (Multi) plus charts. (ATI-111292) *
- 105-69 "Theory and Design of a Gradient Wind Scale," November 1950, 15 pp. (Multi) plus figs. (ATI-92528) *
Change AWS TR 105-69A, 27 April 1951.
- 105-70 "Comparison of Analogue Selection Methods," April 1961, 37 pp. (Multi) (ATI-104137) *
- 105-71 "Report of Elmendorf (Alaska) Weather," January 1946, 38 pp. (Lithopr) (ATI-93006) *
- 105-72 "Dew Point — Relative Humidity Conversion Chart," April 1951, 5 pp. (Multi) (ATI-119241) *
- 105-73 "Forecasting Fog in the Brahmaputra Valley," March 1951, 17 pp. (Typescr) (ATI-98238) *
- 105-74 "Corrections for Temperature Indicator ID-271/AMQ-2 and Humidity Indicator ID-272/AMQ-2," May 1951, 7 pp. (Lithopr) (ATI-104133) * (Rescinded April 1957)
- 105-75 "An Example of Easterly Wave Analysis in the Western Pacific July 8-10, 1945," March 1951, 11 pp. (Typescr) plus figs. (ATI-98239) *
- 105-76 "Some Aspects of Hurricane Forecasting," 20 June 1951, 31 pp. (Lithopr) (ATI-111946) * (Rescinded June 1960)
Change AWS TR 105-76A, May 1955, 9 pp. (Lithopr) (AD-74308) (PE 117941) * (Rescinded June 1960)
- 105-77 "Hurricanes of 1950: Narrative History of Each Storm and Comments on Hurricane Reconnaissance," July 1951, 90 pp. (Typescr) plus maps. (ATI-110565) *

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- 105-78 "Forecasting Typhoons of 1949 With Special Reference to the Use of Streamline Analysis," August 1951, 50 pp. (Multi) plus 39 charts. (ATI-114511) *
- 105-79 "Non-Frontal and Other Types of Thunderstorms in the Lee of the Rocky Mountains," December 1945, 16 pp. (Typescr) plus charts. (ATI-114514) *
- 105-80 "On the Propagation and Growth of Jet Stream Waves," November 1951, 37 pp. (Lithopr) (ATI-133964) (PB 108083) * (Rescinded April 1957)
Change AWS TR 105-80A, 6 February 1952. *
- 105-81 "The Cirrus — Forecasting Problem," November 1951, 11 pp. (Lithopr) (ATI-154339) * (Rescinded April 1957)
- 105-82 "An Area Forecasting Study for the Southeastern United States," November 1951, 53 pp. (Lithopr) (ATI-122474) *
- 105-83 "Notes on Forecasting for Re-supply Operations to Canadian Arctic Stations 1951," November 1951, 16 pp. (Typescr) plus fig. (ATI-122473) *
- + 105-84 "Wind Estimation From State of Sea Observations," February 1952, 12 pp. (Lithopr) (ATI-167313) *
- 105-85 "Chromov's Synoptic Rules," February 1952, 24 pp. (Typescr) (ATI-172066) * (Rescinded June 1960); Amendment #1, March 1952, 2pp. (Rescinded June 1960)
- 105-86 "Tropopause Analysis and Forecasting," March 1952, 31 pp. (Lithopr) (ATI-162082) (PB 139921) *
- + 105-87 "A Preliminary Evaluation of the Meteorological Worth of Sferics Data," March 1952, 18 pp. (Multi) (ATI-173319) * (See AWS TR 105-102)
- 105-88 "Report on Task Force Weather Central Activities During Operation Greenhouse," March 1952, 24 pp. (Typescr) plus Appendices. (Mimeogr) (ATI-143061) *
- 105-89 "Report on the Post Analysis of Typhoons in the Western North Pacific, 1950," April 1952, 27 pp. (Mimeogr) plus 59 charts. (ATI-143040) *
- 105-90 "Forecasting the Long Waves in the Upper Westerlies," June 1952, 40 pp. (Lithopr) (AD-119) * (Rescinded May 1954)
- 105-91 "The Occurrence of Strong Winds at Thule," May 1952, 7 pp. (Typescr) plus illus. (ATI-147201) *
- 105-92 "Forecasting Winter Ceilings at Barksdale Air Force Base," July 1952, 26 pp. (Typescr) plus charts. (ATI-157976) *
- + 105-93 "A Description of Some Methods of Extended-Period Forecasting," March 1954, 90 pp. (Lithopr) (AD-29380) *
Change AWS TR 105-93A, October 1954. (PB 114331) *
- 105-93 "A Description of Some Methods of Extended Period Forecasting," March 1954, 90 pp. (Reprinted by U.S. Weather Bureau, incl. corrections in Change A) *
- 105-94 "Some Important Weather Factors in B-47 Flight Operations," December 1952, 11 pp. (Lithopr) * (Rescinded 1954)

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- + 105-94 (2d Rev) "Some Important Weather Factors in B-47 Flight Operations," October 1954, 18 pp. (Lithopr) (AD-59988) *
- 105-95 "Forecasting Study for Turner Air Force Base," April 1953, 55 pp. (Lithopr) (AD-14211) *
- + 105-96 "Analysis and Wind Flow at the 50- and 25-mb Levels," May 1953, 76 pp. (Lithopr) (AD-17729) *
- 105-97 "The Use of Radar in Weather Forecasting With Particular Reference to Radar Set AN/CPS-9," November 1952, 64 pp. (Lithopr) (AD-5459) *
- 105-98 "Use of Geostrophic Distance in Analysis and Forecasting," December 1952, 5 pp. (Lithopr) (AD-3776) * (Rescinded 1954)
- + 105-98 (Rev) "Use of Geostrophic Distance in Analysis and Forecasting," September 1954, 13 pp. (Lithopr) (AD-74309) (PB 115817) *
- + 105-99 "Tables for Computing Constant Absolute Vorticity Trajectories," December 1952, 12 pp. (Lithopr) (AD-3774) *
- + 105-100/1 "Anomalies in the Northern Hemisphere 700-mb 5-Day-Mean Circulation Patterns," April 1956, 26 pp. (Lithopr) (AD-95566) (PB 123040) *
- + 105-100/2 "Atlas of 700-mb Five-Day-Mean Northern Hemisphere Anomaly Charts," July 1955. (To accompany AWS TR 105-100/1) (AD-95567) (PB 122242) *
- + 105-101 "Memorandum on Density-Altitude," February 1953, 9 pp. (Lithopr) (AD-4381) (Rescinded 1954)
- + 105-101 (Rev) "Memorandum on Density-Altitude," August 1954, 5 pp. (Lithopr) (AD-72285) * (This report supersedes AWS TR 105-101, February 1953)
- + 105-101A Skew T log p Diagram, with Density-Altitude Overprint, 1954. *
- + 105-101 (Rev 2) "Memorandum on Density-Altitude," September 1957 (Lithopr) (AD-145387) (PB 143289) *
- + 105-102 "The AWS Sferics Evaluation Project (1951)," August 1954, 152 pp. (Lithopr) (AD-43882) (PB 115496) *
- 105-103 "An Analysis of Some Contrail Data," February 1953, 13 pp. (Lithopr) (AD-5226) (Rescinded April 1957) (See AWS TR 105-145) *
- + 105-104 "An Estimate of the Contrail Problem," February 1953, 26 pp. (Lithopr) (AD-5288) *
- + 105-105 "Memorandum on Construction of a Device for Measuring Contour Curvature," March 1953, 5 pp. (Lithopr) (AD-5201) *
- 105-106 "A Preliminary Forecasting Study for Thule, Greenland," March 1953, 5 pp. (Lithopr) (AD-5221) * (Rescinded April 1955)
- + 105-107 "Mean Monthly Maps of 300-, 200-, 100-, 50-, and 25-mb Surfaces Over North America," April 1953. (AD-13056) *
- + 105-108 "Temperatures at the 10-mb (101,000-Foot Level)," May 1953, 33 pp. (Lithopr) (AD-20871) (PB 113343) *
- 105-109 Extract 1, "Forecasting Sudden 700-mb Height Changes in Key Areas," April 1953, 4 pp. (Mimeogr) (AD-30340) *
- + 105-110 "Memorandum on Estimating the Height of Cirrostratus Clouds," June 1953, 8 pp. (Lithopr) (AD-21743) *

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- + 105-110A "Test of Method for Estimating the Height of Cirrostratus Clouds," January 1957, 7 pp. (Lithopr) (AD-129546) *
- 105-111 "Report on Project Red Fang: A Test of Operational Utility of the Amchitka Automatic Weather Station," May 1953, 20 pp. (Lithopr) (AD-15065) * (Rescinded June 1960)
- 105-112 "A Further Analysis of Contrail Data," December 1953, 40 pp. (Lithopr) (AD-26922) * (Rescinded April 1957) (See AWS TR 105-145)
- 105-113 "The AWS Runway Air-Density Program," October 1953, 21 pp. (Lithopr) (AD-24099) * (Rescinded 1959)
- + 105-114 "Wind Extrapolation Device (AWS-WPC-10-4)," November 1953, 10 pp. (Lithopr) (AD-22231) (PB 129538) *
- + 105-115 "Mean Cross Sections Along 80°W," (No. 5 in a Series of Background Reports for AWS Manual 105-50), February 1955, 39 pp. (Lithopr) (AD-72873) (PB 117299) *
- + 105-116 "Tables for Computing Horizontal Distance of Pilot Balloons (30 Gram) for Use With the ML-462()/UM-Nozzle," November 1953, 121 pp. (Lithopr) * (Reprint of USWB's Tables)
- + 105-117 "Tables for Computing Horizontal Distance of Pilot Balloons (100 Gram) for Use With the ML-462()/UM-Nozzle," November 1953, 180 pp. (Lithopr) * (Reprint of USWB's Tables)
- 105-118 "(U) Weather Factors in Atomic Warfare," February 1954 (SECRET) (RESTRICTED DATA) *
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- 105-119 "A Survey of Worldwide Upper Air Observing Stations," June 1954, 59 pp. (Lithopr) * (Rescinded April 1957)
- + 105-120 "An Introduction to Numerical Weather Prediction," November 1954, 28 pp. (Lithopr) (AD-55556) (PB 116627) *
- + 105-121 "Winds Over 100 Knots in the Northern Hemisphere," January 1955, 76 pp. (Lithopr) (AD-60095) (PB 117015) *
- + 105-122 "The Military Grid Reference System," October 1954, 12 pp. (Lithopr) (AD-50871) *
- 105-123 Not issued.
- 105-124 "1951 Annual Report of Typhoon Post-Analysis Program," August 1954, 77 pp. Text (Mimeogr) Charts (Lithopr) (AD-38469) *
- 105-125 "1952 Annual Report of Typhoon Post-Analysis Program," August 1954, 43 pp. Text (Mimeogr) Charts (Lithopr) (AD-38468) *
- + 105-126 "Memorandum of Effect of Engine Power Setting on Contrail Formation and Intensity," August 1954, 6 pp. (Lithopr) (AD-74310) *
- + 105-127 "Weather Information From B-47 Flights," October 1955, 37 pp. (Lithopr) (AD-104611) (PB 119006) *
- + 105-128 "Mean Contours, Isotachs, and Isotherms Over the Northern Hemisphere at the 300-, 200-, and 100-mb Levels (January, February, July and August 1949)," (No. 7 in a Series of Background Reports for AWSM 105-50), November 1954. (AD-100947) (PB 116671) *

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- 105-129 "Thermal Structure and Vertical Motion in the Lower Stratosphere," (No. 8 in a Series of Background Reports to AWSM 105-50), December 1954, 36 pp. (Lithopr) (AD-79472) (PB 116793) *
- + 105-130 "A Compendium on Cirrus and Cirrus Forecasting," by Robert G. Stone, March 1957, 156 pp. (Lithopr) (AD-141546) (PB 132399) *
- + 105-131 "Fjörtoft's Graphical Method for Preparing 24-Hour 500-mb Prognostic Charts," April 1955, 11 pp. (Lithopr) (AD-79448) (PB 118042) *
- 105-132 "Preliminary Results of Project Cloud Trail," February 1956, 23 pp. (Lithopr) (AD-101313) (PB 122152) *
- + 105-133 "Accuracies of Radiosonde Data," September 1955, 12 pp. (Lithopr) (AD-75863) (PB 119159) *
- 105-134 "Evaluation of M. Grappe's Extended Period Forecasting Technique," May 1955, 20 pp. (Lithopr) (AD-69809) *
- 105-135 "Charts of Maximum and Minimum Thickness Lines 1000-500-mb Northern Hemisphere, 1949-50," 1952. (AD-156453) *
- + 105-136 "Some Objective Methods for Forecasting 300-mb and 200-mb Winds," by Adam B. Kochanski, November 1957, 14 pp. (Lithopr) (AD-147760) *
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- + 105-139 "The Black Sheep System of Forecasting Winds for Long-Range Jet Aircraft," March 1956, 48 pp. (Lithopr) (AD-95565) (PB 123041) *
- + 105-140/1 "Errors in Upper-Level Wind Forecasts," by Maj Hugh W. Ellsaesser, December 1956, 17 pp. (Lithopr) (AD-146322) *
- + Change AWS TR 105-140/1A, November 1957. *
- 105-140/2 "An Investigation of the Errors in Upper-Level Wind Forecasts," by Maj Hugh W. Ellsaesser, November 1957, 58 pp. (Typescr) (AD-145386) * (Printed December 1959)
- 105-141 "Studies of 2-Hour and 4-Hour Upper-Wind Variabilities Over Nevada," February 1956, 9 pp. (Lithopr) (AD-97052) *
- + 105-142 "Wind, Temperature and Their Variabilities to 120,000 Feet," by Adam B. Kochanski, May 1956, 34 pp. (Lithopr) (No. 9 in a Series of Background Reports to AWSM 105-50) (AD-107275) (PB 123041) *
- 105-143 "On Ultrapolar Circulation Patterns," November 1955, 61 pp. (Typescr) (AD-84104) *
- 105-144 "An Investigation Into the Morphology of Time Series of 500-mb Heights," by Karl Eger, August 1956, 43 pp. (Typescr) (AD-115669) *
- 105-145 "Derivation of Jet-Aircraft Contrail-Formation Curves," by Herbert S. Appleman, January 1957, 46 pp. (Lithopr) (AD-125760) *

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- + 105-146 "Estimating the Probability of Hurricane-Force Winds Affecting an Air Base," by Capt S. J. Kimball, June 1958, 15 pp. (Lithopr) (AD-218559) (PB 135393) *
- + 105-147 "Clear-Air Turbulence from 25,000 to 45,000 Feet Over the United States," by LeRoy H. Clem, July 1957, 13 pp. (Lithopr) (AD-141542) (PB 129904) *
- + 105-148 "An Error Analysis of Geostrophic 300-mb Numerical Wind-Speed Forecasts," by Maj Walter J. Saucier, September 1958, 5 pp. (Lithopr) (PB 142361) *
- + 105-149 "A Digest of Objective Methods for Forecasting Strong Surface Winds (Southwest United States — Early Spring)," by Thomas H. Simmonds, April 1959, 84 pp. (Lithopr) (AD-218079) (PB 140578) *
- # 150 "Air Density Profiles for the Atmosphere Between 30 and 80 Kilometers," by Roderick S. Quiroz, January 1961, 46 pp. (Lithopr) (AD-254659) *
- # 151 "Seasonal and Latitudinal Variations of Air Density in the Mesosphere (30 to 80 Kilometers)," by Roderick S. Quiroz, March 1961, 16 pp. (Lithopr) (AD-254761) *
- + 152 "Preparing the Regional Surface Prognosis at the Tokyo Weather Central," by Maj Herbert Edson, April 1951, 58 pp. (Lithopr) (AD-261937) *
- # 153 "Percentiles of Air Density at Station Level," by Adam Kochanski, May 1961, 42 pp. (Lithopr) (AD-259120) *
- + 154 "The Meteorological Factors Affecting Photographic Reconnaissance From Very High Altitudes," by Karl R. Johannessen, May 1961, 8 pp. (Lithopr) (AD-258525) *
- + 155 "(U) Effects of Variable Atmospheric Density on the Deceleration of Re-Entry Vehicles," by Karl R. Johannessen, August 1961, 37 pp. (Lithopr) (SECRET) (AD-325003) *
- + 156 "Radiation Effects on Manned Space Flights," by Herbert S. Appleman, August 1961, 9 pp. (Lithopr) (AD-262399) *
- + 157 "Applications of Infrared Measurements in Meteorology," by Lt F. B. House and Capt J. R. Blankenship, June 1961, 16 pp. (Lithopr) (AD-263474) *
- + 158 Reprint of "High Level Turbulence," by J. Clodman, G. M. Morgan, Jr., and J. T. Ball, New York University, September 1960. August 1961, 84 pp. (Lithopr) (AD-244597) *
- # 159 "Estimates of Altitudes with Specified Probabilities of Being Above All Clouds," by Irving Solomon, October 1961, 18 pp. (Lithopr) (AD-267339) *
- + 160 "Wind Variability at 150,000 Feet," by Herbert S. Appleman, October 1961, 7 pp. (Lithopr) (AD-268018) *
- # 161 "Climatic Aspects of Ballistic Wind and Density," by William C. Spreen, Rolf M. Nilsestuen, and Oscar E. Richard, November 1961, 20 pp. (Letterpress) (AD-269491) *

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- # 162 "Climatological Probability of Fallout From Multiple Nuclear Detonations," by Capt Thomas D. Potter, January 1962, 8 pp. (Letterpress) (AD-272183) *
- + 163 Reprint of "Wind-Shear Effects," by J. A. Browne, Trans World Airlines, Tech. Bull. 61-3, August 1961. March 1962, 22 pp. (Lithopr) (AD-) *
- 200-1 "Analysis of Japanese Weather Service," May 1946, 505 pp. (Mimeogr) (Formerly AWS TR 45-1) (ATI-84767) * (Rescinded June 1960)
- 335-5 "Weather Forecasting for Artillery Fire," prepared by Weather Division, Hq AAF, May 1944, 51 pp. (Lithopr) (Formerly WD Report No. 735, Redesignated AAFWS TR 90-1) (ATI-84771) *
- 900-5 "Lectures on the Analysis of Variance and Covariance," by Dr. A. Wald, March 1946, 145 pp. (Mimeogr) (Formerly AAFWS TR 200-1) (ATI-87684)*
- 900-10 "Notes on the Theory of Statistical Estimation and of Testing Hypotheses," by Dr. A. Wald, March 1946, 137 pp. (Mimeogr) (Formerly AAFWS TR 200-2) (ATI-76899) *

SECTION D: AIR WEATHER SERVICE PAMPHLETSAWS Pamphlets

- 0-5 "Memorandum Bibliography of Published Contributions of Original Character on Meteorology," 10 June 1948, 17 pp. (Mimeogr) * (AD-76623)
- + 0-9 (Rev) "(U) Bibliography on the Determination of Air Trajectories in the Atmosphere," December 1955 (CONFIDENTIAL) (AD-81167) *
- 0-10(Rev)/2 "(U) Bibliography on Meteorological Aspects of Guided Missile or Rocket Ballistics and Operations," June 1956 (CONFIDENTIAL) (AD-99903) *
- 0-11 "Index to Contents of the 'Weather Service Bulletin' 1943-1950," August 1951, 75 pp. (Multi) (ATI-114531) *
- + 0-13 "Catalogue of Local Forecast Studies," 30 November 1961, 135 pp. (Lithopr) * (AD-270165L) (Supersedes AWS Bibl 13, July 1960)
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- 0-14 "Bibliography on Small-Scale Time and Space Variations in the Free Atmosphere," March 1954, 5 pp. (Mimeogr) (AD-29375) *
- + 0-15 Vol. I, "List of Translations on Meteorology and Atmospheric Physics," compiled by Rosa E. Hay, April 1959, 140 pp. (Lithopr) (AD-227459) * (Supersedes AWS Bibl 15, October 1957)
- + 0-15 Vol. II, "List of Translations on Meteorology and Atmospheric Physics," 30 September 1961, 105 pp. (Lithopr) (AD-265052) *
- 0-16 "(U) List of [Classified] Translations on Meteorology and Atmospheric Physics," April 1958 (CONFIDENTIAL) (AD-156857) *
- + 0-17/1 "Technical Publications and Documents of AWS Field Activities, Part I: 1945-61, With a Chronology of AWS Organizations 1945-61," June 1961, 150 pp. (Lithopr) (AD-259710) * (Supersedes AWS Bibl 17/1, September 1959)
- + 0-17/2 "Technical Publications and Documents of Air Corps and AAF Field Weather Activities, Part Two: 1937-1945, With a Chronology of AC and AAF Weather Regional Organizations, 1937-1945," compiled by Rosa E. Hay, September 1960, 64 pp. (Lithopr) (AD-244550) *
+ Change AWSP 0-17/2A, 19 February 1962, 3 pp. (Lithopr) *
- + 0-18/1 Extract I, "List of Available AWS Technical Reports," 12 October 1961, 14 pp. (Lithopr) (AD-266427) *
- + 0-18/2 "Bibliography of Documents Prepared by Weather Staff Sections of Headquarters Army Air Corps and Headquarters Army Air Forces 1937-June 1945," May 1961, 62 pp. (Lithopr) (AD-256922)
+ Change AWSP 0-18/2A, 19 February 1962, 2 pp. *
- + 50-2 "Film Directory," January 1961, 13 pp. (Multi) *
- + 50-3/1 "The Weather Forecaster, Part I," 1 June 1957, 27 pp. (Lithopr) *
- + 50-3/2 "The Weather Forecaster, Part II," 1 October 1957, 19 pp. (Multi) *
- + 50-4 "Standard Weather Presentation for Base Instrument Pilot Refresher Program, 15 June 1958, 30 pp. (Lithopr) *
- + 50-5/1 "WB-50 Maintenance Part I: Aircraft Mechanic AFSC 431X1," 1 September 1960, 14 pp. (Lithopr) *

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- + 50-5/2 "WB-50 Maintenance, Part II: Propeller Mechanic AFSC 421X1,"
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- + 50-5/3 "WB-50 Maintenance, Part III: Hydraulic Repairman AFSC 421X2,"
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- + 50-5/4 "WB-50 Maintenance Part IV: Engine Mechanic AFSC 432X1," 1 September
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- + 50-5/5 "WB-50 Maintenance Part V: Instrument Repairman AFSC 422X0,"
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- + 50-5/6 "WB-50 Maintenance, Part VI: Ground Power and Equipment AFSC 421X3,"
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- + 50-5/7 "WB-50 Maintenance, Part VII: Electrical Repairman AFSC 423X0,"
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- + 50-5/9 "WB-50 Maintenance, Part IX: Airframe Repairman AFSC 534X0,"
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- + 50-5/10 "WB-50 Electronics, Part X: Aircraft Radio Maintenance AFSC 301X0,"
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- + 50-5/11 "WB-50 Electronics, Part XI: Electronics NAV Equipment Maintenance
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- + 50-5/12 "WB-50 Electronics, Part XII: Weather Equipment Maintenance AFSC
302X0," 1 September 1960, 3 pp. (Lithopr) *
- + 50-5/13 "AFM 66-1 Familiarization for Reconnaissance Aircraft Maintenance
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- + 50-6 "The Weather Observer," April 1959, 9 pp. (Lithopr) * (Rescinded
January 1962)
- 50-8 "Three Weather Training Courses for AACS Personnel," January 1954,
8 pp. (Lithopr) * (Superseded by AWSP 50-8, October 1961)
- + 50-8 "Weather Training Courses for AFCS Personnel," 1 October 1961, 5 pp.
(Lithopr) *
- + 50-10 "Military Climatology (A Weather Consultant Service)," November 1956,
15 pp. (Letterpress) *

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SECTION F: CLIMATIC METHODS FILE

(All future issues will be prepared by 1210th Wea Sq., and listed in next AWSP O-17/1)

"Climatic Methods File," prepared by Climatic Analysis Division, 1955 through 1961
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Section B "Estimation of the Mean Number of Heating Degree Days per Month," 15 October 1957, 17 pp. (Multi)

"Estimation of the Mean Number of Heating Degree Days per Month (Rev)," 15 May 1961, 17 pp. (Multi)

Section C "A Method for Determining Winter and Summer Design Temperatures," 25 November 1957, 6 pp. (Multi)

Section D "Estimation of Wet-Bulb Temperature Distribution," July 1961, 15 pp. (Multi)

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Section G "Extension of Conversion Factor for Computing Standard Deviation of Wind Factors," 22 June 1956, 6 pp. (Multi)

Section H "Effective Fallout Wind Computation, 5 April 1957, 2 pp. (Multi)

"Effective Fallout Wind Computation," prepared by Arthur G. Builta, 6 August 1959, 4 pp. (Multi)

Section I "Computation of Mean Vector Winds and Standard Vector Deviations," 30 September 1957, 10 pp. (Multi)

Section J "A Method for the Construction of Climatological Fallout-Dose Patterns," by John McCabe and Thomas D. Potter, 30 August 1958, 17 pp. (Multi)

Section K "Nomograph for Calculating the Module of a Vector Difference," by W. C. Spreen and R. M. Nilsestuen, 1 October 1958, 3 pp. plus illus.

Section L "Wind Factor Correction for True Airspeed," by John H. Taylor, January 1960, 4 pp. (Multi)

Section M "Models of Vertical Correlation Coefficients of the Wind," prepared by Adam Kochanski, January 1960, 14 pp. (Multi)

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Chapter 5 Cloudiness and Contrails.

Section A "Frequency of Ceilings by Altitude," 30 March 1957, 10 pp. (Multi)

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Chapter 9 Densities.

Section A "Percentiles of Air-Density at Station Level," by Adam Kochanski, May 1960, 27 pp. incl. figs. (Multi)

Chapter 10 Miscellaneous.

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Section E "Estimation of Ice Accumulation on Wires and Radomes," October 1960, 33 pp. (Multi)

SECTION G: AWS OPERATIONS DIGESTAWS Operations Digest, Vol. 1, No. 1, May 1959, 10 pp. (Multi) *

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- "U.S. Weather Bureau Forecasting Guide No. 4," p. 20.
- "Use of Radar for Forecasting Peak Gusts," pp. 20-21.
- "Correction," p. 21.
- "First Annual Report on Weather Modification by NSF," pp. 21-22.
- "JNWP Unit News at Press Time," p. 22.

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- "TIROS II — A Preliminary Report on the Nephanalysis Program," pp. 2-3.
- "HURRICANE 'DONNA'," pp. 4-5.
- "Would 'Perfect' Prog Charts Improve 'Weather' Forecasts?" pp. 5-6.

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- "The Map Analyst's Corner," pp. 9-14.
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 - B. The Case of the Misplaced Jet Stream.
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- "Graphical Prediction Technique," p. 24.
- "Diurnal Variation of Stratospheric Winds," p. 24.

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- "TIROS II," p. 2.
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- "Cyclogenesis and JNWP 500-mb Prognostic Errors," pp. 19-20.
- "Use of Statistical Forecast Methods," pp. 20-21.

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- "TIROS News," p. 2.
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- "The American Geophysical Union's Program Valuable to AWS," pp. 11-13.
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SECTION I: AWS ADDENDUMS TO WBAN MANUALS
(Includes AWS Interim Changes and AWS Amendments)

Item No.

1. "AWS Addendum I to WBAN Manual of Surface Observations," [Circular N, 6th Ed.], 1 June 1951, 56 pp. (Multi) (ATI-95511) *
AWS Amendment 1, 10 July 1951
AWS Amendment 2, 10 August 1951
AWS Amendment 3, 8 October 1951
AWS Amendment 4, 8 February 1952
(Superseded by AWS Addendum II, October 1952)
2. "AWS Addendum II to WBAN Manual of Surface Observations," [Circular N, 6th Ed.], October 1952, 53 pp. (Multi) *
(Superseded by AWS Addendum I, 1 October 1957)
3. "AWS Addendum I to WBAN Manual of Surface Observations [Circular N, 7th Ed., Revised with Changes 1-4], 1 October 1957." (Lithopr) *
AWS Interim Change VI-1, 15 January 1958
AWS Interim Change VI-2, 2 July 1958
AWS Interim Change X-1, 25 August 1961
AWS Interim Change XI-1, 13 November 1961
4. "AWS Addendum I to WBAN Manual of Winds-Aloft Observations [Circular O, 4th Ed.] (July 1950)," 15 June 1960 (1 August), 24 pp. (Multi) *
AWS Amendment 1, 15 February 1952
(Superseded by AWS Addendum II, 1 November 1954)
5. "AWS Addendum II to WBAN Manual of Winds-Aloft Observations [Circular O, 4th Ed., July 1950] (July 1950)," 1 November 1954 (10 December), 26 pp. (Multi) (AD-50877) *
(Superseded by AWS Addendum II, 1 January 1955)
6. "AWS Addendum II to WBAN Manual of Winds-Aloft Observations (Circular O, 4th Ed.)," 1 January 1955. (Multi)
AWS Amendment 1, 1 September 1955
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AWS Amendment 4, 1 June 1957
(Superseded by AWS Addendum I, 15 February 1960)
7. "AWS Addendum I to Manual of Winds-Aloft Observations (WBAN) (Circular O, 5th Ed.), September 1959," 15 February 1960. (Lithopr) *
AWS Interim Change I-1, 20 February 1961

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8. "AWS Addendum I to WBAN Manual of Radiosonde Observations [Circular P, 6th Ed.] (January 1950)," 1 February 1950, 74 pp. (Multi) (AD-5011) *
AWS Amendment 1, 20 June 1950
AWS Amendment 2, 15 June 1951
AWS Amendment 3, 2 April 1951
AWS Amendment 4, 10 July 1951
AWS Amendment 5, 15 February 1952
(Superseded by AWS Addendum II, October 1955)
9. "AWS Addendum II to WBAN Manual for Radiosonde Observations (Circular P, 6th Ed.)," October 1955 (Multi)
AWS Amendment 1, 1 November 1956
(Superseded by AWS Addendum I, 1 June 1957)
10. "AWS Addendum I to WBAN Manual of Radiosonde Observations [Circular P, 7th Ed.], 1 June 1957," 2 pp. (Multi) *
AWS Interim Change V-1, 15 February 1960
AWS Interim Change V-2, 4 October 1960
AWS Interim Change V-3, 8 May 1961
AWS Interim Change V-4, 18 May 1962
11. "AWS Addendum I to WBAN Manual of Card Punching, 5th Ed.," January 1951.
AWS Amendment 1, 15 March 1951
12. "AWS Addendum I to Manual for Upper-Wind Code (1st Ed.)," 1 January 1955.
(Multi)
AWS Interim Change I-1, 1 June 1955
AWS Interim Change I-2, 1 August 1955
AWS Interim Change I-3, 15 September 1955
AWS Interim Change I-4, 1 January 1957
AWS Interim Change I-5, 1 December 1958
13. "AWS Addendum I to WBAN Manual for Synoptic Code [1st Ed., January 1955]," 1 May 1955, 2 pp. (Multi) *
AWS Interim Change I-1, 1 June 1957
14. "AWS Addendum I to Manual for Radiosonde Code (WBAN), 1st Ed., 1 February 1956," 1 June 1956.
AWS Interim Change I-1, 15 August 1956
AWS Interim Change I-2, 1 June 1957
AWS Interim Change I-3, 1 September 1958
AWS Interim Change I-4, 1 December 1958
AWS Interim Change II-1, 30 December 1959
(Superseded by AWS Addendum I, 15 March 1961)
15. "AWS Addendum I to WBAN Manual for Radiosonde Code," 14 March 1961, 2 pp. (Lithopr) *

SECTION J: AWS HISTORICAL STUDIES

AWS Historical Studies

1. "The Air Weather Service Reorganization, Fiscal Year 1952," November 1952, 51 pp. (Multi) *
2. "Inspections and Surveys, Fiscal Year 1952," 16 February 1953, 30 pp. (Multi) *
3. "Measuring the Wind: The AN/GMD-1A," 30 June 1954, 72 pp. (Multi) *

SECTION K: AIR WEATHER SERVICE BIBLIOGRAPHIESAWS Bibliographies

- No. 1. "Bibliography of California Stratus and Stratus in Analogous Regions (in WD Report No. 796)," July 1944, 4 pp. * (Revised 1951) (Rescinded)
- No. 2. "Bibliography on Chemical Composition of Precipitation and on Solid Impurities in Precipitation," with Addendum, January 1951, 12 pp. (Typeset) * (Originally prepared by AAF Weather Central Division as Report No. 994, September 1945) (ATI-91598)
- No. 3. "Bibliography of Meteorological Translations," 1946, 36 pp. (Ditto)*
- No. 4A. "Bibliography of Russian [Meteorological] Texts and Translations," [in Hq AWS Files], 18 December 1947, 68 pp. (Mimeogr) (ATI-76622) *
- No. 4A. Addendum No. 1, January 1951, 2 pp. (Mimeogr) (ATI-76622) *
- No. 4B. "(U) Bibliography of Russian [Meteorological] Texts and Translations," [in Hq AWS Files], December 1947. (SECRET) (ATI-118129)
- No. 5. "Memorandum Bibliography of Published Contributions of Original Character on Meteorology," 10 June 1948, 17 pp. (Mimeogr) * (ATI-76623)
- No. 6. "(U) Selected References on Snow Properties and Their Measurement," (CONFIDENTIAL) (ATI-118130) *
- No. 7. "Status of Meteorological Research, December 1949," January 1950. (Rescinded August 1950)
- No. 8. "Bibliography on High-Altitude Clear-Air Turbulence in the Atmosphere," December 1950, 5 pp. (Multi) * (Revised March 1952, 4 pp) (ATI-93433) (Rescinded April 1957) *
- No. 9. "Bibliography on the Determination of Air Trajectories in the Atmosphere," January 1952, 14 pp. (Multi) (ATI-125567) *
- No. 9 (Rev). "(U) Bibliography on the Determination of Air Trajectories in the Atmosphere," December 1955. (CONFIDENTIAL) (AD-81167) *
- No. 10. "(U) Bibliography on Meteorological Aspects of Guided Missile (or Rocket) Ballistic and Operation," January 1951. (SECRET) (ATI-107712) *
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- No. 11. "Index to Contents of the 'Weather Service Bulletin' 1943-1950," August 1951, 75 pp. (Multi) (ATI-114531) *
- No. 12. "Bibliography on the Jet Stream," March 1952, 8 pp. (Multi) * (Rescinded April 1957)
- No. 13. "Catalogue of Local Forecast Studies," November 1952, 90 pp. (Mimeogr) *
- No. 13 (Rev). "Catalogue of Local Forecast Studies," February 1956, 91 pp. (Lithopr) (AD-104321) *

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- No. 13. "Catalogue of Local Forecast Studies," compiled by Rosa E. Hay, July 1960, 134 pp. (Lithopr) * (This bibliography supersedes AWS Bibl 13, April 1958) (AD-243358L)
- No. 14. "Bibliography on Small-Scale Time and Space Variations in the Free Atmosphere," March 1954, 5 pp. (Mimeogr) (AD-29375) *
- No. 15. "List of Translations on Meteorology and Atmospheric Physics," March 1956, 68 pp. (Lithopr) (AD-103396) *
- No. 15 (Rev). "List of Translations on Meteorology and Atmospheric Physics," with Addendum No. 1, October 1957, 107 pp. (Typescr) * (This bibliography supersedes AWS Bibl 15, March 1956) (AD-145385)
- No. 15. Vol. I, "List of Translations on Meteorology and Atmospheric Physics," compiled by Rosa E. Hay, April 1959, 140 pp. (Lithopr) (This bibliography supersedes AWS Bibl 15, October 1957) (AD-227459) *
- No. 16. "(U) List of Translations on Meteorology and Atmospheric Physics," April 1958 (CONFIDENTIAL) (AD-156857) *
- No. 17/1. "Technical Publications and Documents of Air Weather Service Field Activities, Part I: 1945-49, With a Chronology of AWS Organizations, 1945-59," compiled by Rosa E. Hay, September 1959, 111 pp. (Lithopr) (AD-229552) *
- No. 17/2. "Technical Publications and Documents of Air Corps and AAF Field Weather Activities, Part II: 1937-1945, With a Chronology of AC and AAF Weather Regional Organizations 1937-1945," compiled by Rosa E. Hay, September 1960, 64 pp. (Lithopr) (AD-244550) *
Change AWSP O-17/2A, 19 February 1962, 3 pp. *

SECTION L: BLACK SHEEP PROJECT PUBLICATIONSBlack Sheep Technical Communiques (Series III)

(Nos. 1-19 are listed in AWS Bibl 17/1 under 1st Wea Gp, 26th Wea Sq.)

- #20 "Metro Aspects of B-47 Exhaust Trails," January 1954, 29 pp. (Multi) (Comments attached) * (AD-69867)
- #21 "(U) B-47 Weather Recon," January 1954, 9 pp. (Multi) (SECRET) *
- #22 "(U) A Problem for the Cloud Physicist, Meteorologist, and Aeronautical Engineer," (Comments by Capt Downie) February 1954 (Typescr) (CONFIDENTIAL) *
- #23 "Preparation of the 35,000-Foot D-Chart," by Capt Keith Veigas, 22 April 1954, 4 pp. (Typescr) * (AD-80861)

Black Sheep Technical Prospectuses (Series IV)

- #1 "High Level Synoptic Cloud and Contrail Data Program," 30 December 1953, 3 pp. (Typescr) *
- #2 "Proposal for Special Investigation," January 1954, 2 pp. (Typescr) *
- #3 "Study of Winds and Temperatures at the Jet Aircraft Operating Altitude," December 1954, with Comments (Typescr) plus figs. *
- #4 "Theoretical Investigations Pertaining to Methods for Predicting High-Level Winds for Jet Aircraft: Part I," April 1954, 4 pp. (Ozalid) *
- #5 "(U) A Proposed Locale for Project EGO," 22 June 1954, 2 pp. (Typescr) (CONFIDENTIAL) *
- #6 "(U) The Strato-X-Trail Levels," 22 June 1954, 2 pp. (Typescr) (CONFIDENTIAL) *

Black Sheep Staff Studies (Series V)

- #1 "Winds and Altimetry Affecting B-47 Operations and Certain Other Meteorological Factors," 17-18 February 1954, 2 pp. (Typescr) *
- #2 "Mission Winds-Mucho," 10 March 1954, 3 pp. (Typescr) plus illus. *
- #3 "Mission on Winds," March 1954, 1 p. plus illus.
- #4 "(U) A Note on the Observed Extreme Variations Along the Vertical of Horizontal Free Wind," 23 April 1954, 7 pp. (Ozalid) plus charts. *
- #5 "A Note Detailing the Three-Dimensional Variations of the Horizontal Wind in the Vicinity of the Jet Stream," 2 July 1954, 4 pp. (Ozalid) plus charts. *

Black Sheep Technical Notes (Series VI)

- #1 "A Note of the Eulerian Variations Along the Jet Stream of the Horizontal Wind Speed," 23 July 1954, 9 pp. (Ozalid) plus figs. *
- #2 "The Effect of Atmospheric Temperature on the Range of the B-47 Jet Aircraft," 13 August 1954, 9 pp. (Ozalid) *
- #3 "Comparison of High Level Aircraft and Meteorological Wind Observations," 2 September 1954, 11 pp. (Ozalid) *

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- #3a "Comparison of High Level Winds Measured With GMD-1A, SCR-658, and SCR-584," 9 December 1954, 8 pp. (Multi) * (Rescinded) (See AWS TR 105-127)
- #3b "Frequency of Vector Deviations," April 1955, 2 pp. (Ozalid) *
- #4 "Mission Winds-Mucho," 13 September 1954, 3 pp. (Multi) plus figs. *
- #5 "On the Annual Recurrences of Circulation Anomalies and the Prediction of Extended Mean-Periods," 13 February 1953, 48 pp. (Multi) * (AD-69865)
- #6 "An Analysis of 'Continuous' Inflight Weather Observations," 1 December 1954, 27 pp. (Multi) * (AD-207991)
- #7 "B-47 Ambient Air Temperature Observations," 7 February 1955, 11 pp. (Multi) *
- #8 "The Critical Eddies in the Upper Atmosphere: I. Some Preliminary Observations," 15 pp. plus illus.
- #9 "The Density Field and Its Application," March 1955, 6 pp. (Multi) * (AD-69866)

Black Sheep Special Reports (Series VII)

- #1 "TS Ice," by Capt Currie S. Downie and Capt Arthur S. French, published in Combat Crew, September 1953. *
- #2 "Aerological Climatology of the Jet Stream," October 1953, 2 pp. plus illus.
- #3 "(U) Missiles and Meteorology," 22 June 1954, 2 pp. (SECRET) *
- #4 "Observations on Billow Clouds and Deforming Exhaust Trails From Aircraft," published in Proceedings of the Toronto Meteorological Conference, 1954, pp. 182-187. * (By Lt Col R. C. Bundgaard)
- #5 "Status Report on Project Hi-Cloud," 11 March 1954, (Typescr) plus charts *
- #6 "AWS C/S's Staff Briefing," 3 February 1954, 37 pp. (Multi) plus photos. *
- #7 "Problems of High Level Forecasting (Briefing to SAB)," February 1954, 5 pp.
- #8 "Temporal Variability of Winds," 5 March 1954, 5 pp. (Ozalid) *
- #9 "Jetstream Jets," 11 June 1954, 12 pp. (Ozalid) *
- #10 "(U) Proposed AWS Program for B-52's," 16 August 1954, 3 pp. (Typescr) (CONFIDENTIAL) *
- #11 "Procedures for Forecasting High Level Winds for Jet Aircraft Operations, Part I, II, III," 15 October 1954, 157 pp. (Multi) * (Part III AD-80022)
- #12 "Weather Factors in a B-47 Mission," November 1954, 9 pp. (Manuscr) *
- #13 "Symposium on 100 and 50 mb Analysis," 28 December 1954, 17 pp. (Multi) *
- #14 "A Note on the Variations Along the Jet Stream of the Horizontal Wind Speed," by Maj F. W. Murray and Capt M. W. Burton, 1955, 10 pp. (Typescr) plus figs. *

SECTION L (Cont'd)Black Sheep (Cont'd)Black Sheep Special Reports (Cont'd)

- #15 "Thar She Blows," by Lt Col R. C. Bundgaard, published in Combat Crew, April/May 1955, pp. 18-23. *
- #16 "Synoptic Observations Around 40,000 Feet," presented as a film: High Level Observing, narrated by Robert C. Bundgaard and Keith W. Veigas, 3 May 1955, 7 pp. (Typescr) *

Black Sheep Technical Bulletins (Series VIII)

- #1 "Verification of B-47 Wind Forecasts," February 1955, 23 pp. (Multi) *
- #2 "High Level Meteorological Observations and Synoptic Information," February 1954, 79 pp. incl. illus. * (AD-98653)
- #3 "A Note on the Utilization of Jet Aircraft Weather Observations," 15 April 1955, 5 pp. (Typescr) *
- #4 "Field Test of 'Best Method'," May 1955, 18 pp. (Multi) * (AD-80021)
- #5 "B-47 Turbulence Reports," July 1955, 7 pp. (Typescr) *

Semi-Annual Status Report #1, Period 1 January to 15 April 1953. * Contents:

"Two Dimensional Kinematic Methods and Their Application to Investigations of the Wind Field at the B-47 Level," by Lt Col R. C. Bundgaard, pp. 1-58 (Typescr) (AD-96876)

"The Application of the Pressure-Height Field for Determining the Wind Field at the B-47 Levels," by Lt Col R. C. Bundgaard, pp. 59-134 (Typescr) (AD-102722)

"Weather Observations at the B-47 Levels," pp. 135-147 (Typescr)

Semi-Annual Status Report #2, Period 15 April to 15 October 1953, 51 pp. incl. illus.*Semi-Annual Status Report #3, Period 15 October 1953 to 15 April 1954, 32 pp. incl. TABS. (Typescr) *Quarterly Report of Activities, 4th Quarter FY 1954, 32 pp. (Typescr) *Quarterly Report of Activities, 1st and 2d Quarter FY 1955, 14 pp. (Typescr) *Memos for Record, 1 through 4, 1 June 1955, 7 pp. (Typescr) plus figs. *

SECTION M: AIR WEATHER SERVICE BULLETINS

(For previous issues see AWS Bibl. 17/2 under AAF Wea Wing)

AAF Weather Service Bulletin, Vol. 3, No. 7, July-August 1945, 28 pp. (Lithopr)
(ATI-109007) *

Contents:

- "Stateside Reassignment," pp. 1-2.
- "East Asian Circulation (Winter)," by Dr. J. Bjerknes, pp. 3-9.
- "Air Routes Thru Tarawa," by Lt M. Simons and T/Sgt R. Rothlein, pp. 10-11.
- "Radar Storm Detection," by Lt George Austin, pp. 12-19.
- "Theta-E Chart," pp. 20-21.
- "Gust Forecast," by WOJG Herman Jordan, pp. 22-23.
- "Outpost in China," by Cpl Irving Ripps, pp. 24-28.

AAF Weather Service Bulletin, Vol. 3, No. 8, September-October 1945, 28 pp. (Lithopr)
(ATI-109008) *

Contents:

- "The Builders," by Dr. Vannevar Bush, p. 1.
- "A-B-C's of Observing," by S/Sgt David Nichols, p. 2.
- "Observers' Exam," pp. 3-4.
- "Analysis of C.-P. Surfaces," by Maj R. C. Bundgaard, pp. 5-21.
- "Metro Musings," p. 22.
- "Air Support Weather: I," by Cpl Irving Ripps, pp. 23-27.
- "C.-P. Geostrophic Winds," by Lt Edmund Dews, p. 28.

AAF Weather Service Bulletin, Vol. 3, No. 9, November-December 1945, 36 pp. (Lithopr)
(ATI-109009) *

Contents:

- "Master Forecasting Plan," by Lt Col John H. Feeley, Jr., pp. 1-2.
- "These are the Fax," by Capt M. Schlessinger and Capt William Stokes, pp. 3-6, continued on p. 25.
- "Our Future," by Col D. N. Yates, p. 7.
- "The Navy Way," by Lt T. C. Hagins, Jr., pp. 8-11.
- "Metro Aspects of Bombing," by Lt Morris Hendrickson, pp. 12-17.
- "TM 1-235 Weather Station Handbook for the Observer," pp. 18-20.
- "Air Support Weather: II," by Cpl Irving Ripps, pp. 21-25.
- "Tide Predictions," by Lt V. J. O'Connor, pp. 26-34.
- "Metro Musings," p. 34.
- "Index for 1945," p. 35.
- "Two Years Before the Inkwell," p. 36.

SECTION M (Cont'd)AWS Bulletins (Cont'd)Air Weather Service Bulletin, No. 1, December 1947, 36 pp. (Multi) * (ATI-112809)

Contents:

1. "Introducing Maj Gen R. W. Harper, Commanding General A.T.C.," 1½ pp.
2. "Weather Service Message to all Officers," 3 pp.
3. "Invitation to Contribute Material to the 'Weather Service Bulletin'," 1 p.
4. "Unauthorized Transmissions on the USAF Weather Teletype Network," 1 p.
5. "Improvement in Statistical Reporting," 1 par.
6. "WD AGO Form 66," 1 par.
7. "Efficiency Reports," 1 par.
8. "Deadline for Gasoline Consumption and Requirements Report is Nigh," 1 p.
9. "The Cloud-Physics Problem in Relation to Weather Control," by Maj J. Jones, 7 pp.
10. "Your Complaint," by Lt Col M. W. Roman, 1 p.
11. "Terminal-Forecast Group Program," by Capt D. Thaler and Lt Orville Daniel, 2 pp.
12. "First Forecasting Seminar in 6th Weather Squadron," by Capt E. J. Goettlicher, 6th Wea Sq., Albroom Field, 2 pp.
13. "The International Meteorological Organization and the Air Weather Service," by Maj P. M. Huber, 3 pp.
14. "Air Weather Service in the News," by Capt Forszen, 1 p.
15. "Weather Service for Operation Churchill," ½ p.
16. "Cellometer Program," 1 par.
17. "Radar-Storm Detection Program," 1 par.
18. "The Development Program for Meteorological Equipment," by Mrs. Frances L. Whedon, OCSigO, 3 pp.
19. "The Arctic Program," by Capt H. G. Dorsey, 1 p.
20. "A Mobile Weather Squadron Planned," ½ p.
21. "Consolidation of Maintenance Forms," ½ p.
22. "Supply, Maintenance, and Installation as Affected by New AF Ltr 20-6," 1 par.
23. "Reassignment of Weather Research and Development Responsibilities," 1 p.
24. "Functions of the Data-Control Unit," 1½ pp.
25. "Answers to Questions on Active Duty for Reserve Weather Officers," 1 p.
26. "Competitive Tour for Regular Air Force Commission," ½ p.
27. "Forecast Errors," 1 p.
28. "Army-Air Force Agreements on Weather Service," ½ p.
29. "Lt. Col. King, CO, 31st Weather Squadron," 1 par.
30. "New Manual on Constant-Pressure Analysis and Forecasting," ½ p.
31. "New Manual on Meteorological Ballistic Messages for Air Bombing," 1½ pp.

SECTION M (Cont'd)AWS Bulletins (Cont'd)Air Weather Service Bulletin, No. 2, 15 January 1948, 38 pp. (Multi) * (ATI-119242)

Contents:

32. "On Upper-Air Soundings," by Brig Gen D. N. Yates, 1 p.
33. "Improper Preparation and Channeling of Signal Corps Requisitions," 1 p.
34. "Channels for Requisitioning of Weather Plotting Charts," 2 pars.
35. "Operations of the WBAN Analysis Center," by Maj House, 4 pp.
36. "Wind Effects on Weathercocking Rockets," by Dr. D. T. Perkins, 7½ pp.
37. "The Weather Reconnaissance Program," 2 pp.
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40. "Weather Service to Flight Service Centers," by Maj W. H. Bernheisel, 1 p.
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Air Weather Service Bulletin, No. 5, December 1950, 64 pp. (Lithopr) * (ATI-107711)

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- "Ocean Waves as an Aid in Locating Storms at Sea," by Maj A. R. Gordon, Jr., pp. 39-48.
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- "Juneau Icefield Research Project," pp. 33-45.
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- "A Review of the Sferics Problem," by Capt C. E. Jensen, pp. 48-61.
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- "A Method of Verification and Scoring," by Irving I. Gringorten, pp. 70-78.
- "A Brief on the Preparation and Utilization of Facsimile Six-Day Prognostic Charts," by Capt Donald E. Martin, pp. 78-80.
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- "The Automatic Weather Station Takes Over a Dreary Job," pp. 3-5.
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- "Value of Weather Reconnaissance Observations," by A. K. Showalter, p. 1.
- "Notes on Computing Wind Components From Constant Pressure Charts," by Maj Jesse B. Havard and Dr. K. R. Johannessen, pp. 2-7.

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- "A Method for Preparing Prognostic Charts: Part I, Surface Prognostic Chart," by Major Russell E. Wright, pp. 11-13; "Part II, 500-mb Prognostic Chart," by Capt Clarence C. Hardin, pp. 13-15.
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- "Contrails Over Florida," p. 83.
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- "Point Rainfall Data," pp. 87-89.
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- "The Importance of ICAO to the Air Force," pp. 4-5.
- "Notes on Arctic Weather," pp. 6-9.
- "New Surface Wind-Measuring Equipment," pp. 10-11.
- "The Soviet Forecast Method of I. A. Kibel," pp. 12-17.
- "Weather Factors in a B-47 Mission," pp. 18-23.
- "Significance of Correlation Coefficients," pp. 24-25.
- "Analysis of Snow Reports," pp. 26-28.
- "An Objective Technique for Forecasting Low Ceilings and Visibilities at Andrews Air Force Base," pp. 29-35.
- "The Terrestrial Atmosphere," by N. C. Gerson, pp. 36-39.

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"Approximate Minimal Flight Planning," pp. 42-44.

"Notes on the Relationship of Sea and the Atmosphere," by Prof. G. Neumann, pp. 45-47.

"Angels on Radar Scopes," by Capt Stanton R. Withrow, pp. 48-51.

"Radar Objects Over Washington," pp. 52-57.

"A Preliminary Evaluation of the Weather at Fletcher's Ice Island," by Maj Leslie A. Shankey, pp. 58-61 (AD-44213).

"New Weather Codes Planned," pp. 62-63.

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7. "Numerical Prediction Program Unfolds," pp. 7-8.
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9. "The AWS Bulletin," pp. 9-10.
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AWS Scientific Services Newsletter, Vol. 1, No. 2, August 1954, 12 pp. (Multi) *

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1. "Effect of Engine Power Setting on Contrail Frequency and Intensity," p. 1.
2. "Test of Five-Day Forecast Methods Completed," pp. 1-2.
3. "Recommended Reading," pp. 2-4.
4. "Evaluation of the AWSM 105-39 Icing Nomogram," pp. 4-6.
5. "Recent Visit of Prominent Meteorologists," pp. 6-7.
6. "Scientific Services Publications Program," pp. 7-8.
7. "A DOD Source for Information on Polar Regions Established," p. 8.
8. "East China Sea Cyclogenesis," p. 8.
9. "Developments in Radar," p. 9.
10. "Tornado Sferic Program," pp. 9-10.
11. "Recent Research (Contract) Reports Received (Notice No. 2)," pp. 10-12.

AWS Scientific Services Newsletter, Vol. 1, No. 3, 15 December 1954, 19 pp. plus
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1. "Minimal Flight Planning," pp. 1-3.
2. "Effect of the Earth's Curvature on Upper-Level Wind Computations," p. 3.
3. "Activities of the Joint Numerical Weather Prediction Unit," pp. 4-5.
4. "Use of Historical Weather Map Series," pp. 6-7.
5. "Seminar on Extended-Period Forecasting," pp. 7-8.
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14. "Revision of 'Geophysical Research Paper No. 23'," pp. 16-17.
15. "Planned Revision of AWSM 105-40," p. 17.
16. "Scheduled Field Visits by AWSSS Personnel," p. 17.
17. "Meteorological Research Activities in Europe," pp. 18-19.

AWS Scientific Services Newsletter, Vol. 2, No. 1, 15 January 1955, 20 pp. plus
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- II "Are You Receiving All the AWS Technical Publications You Should be Getting?" pp. 12-13.
- III "Recommended Reading," p. 13.
- IV "Scientific Services Publication Program," pp. 13-14.
- V "More on the Objective Forecast Study Program," p. 14.
- VI "Project Cloud Trail," p. 15.
- VII "The International Geophysical Year," pp. 15-16.
- VIII "Hemispheric Maps of the Normal High-Level Circulation," pp. 16-17.
- IX "Aircraft Icing Conference at WADE, 2 Dec 54," pp. 18-19.
- X "A Graphical Method for Obtaining the 200-mb Height From the 500-mb Height and Temperature," p. 19.
- XI "Corrigenda for AWS Bulletin, September 1954," p. 19.
- XII "Third Weather Group Technical Bulletin," p. 20.
- XIII "Effects of Atomic Explosions on Weather," p. 20.

AWS Scientific Services Newsletter, Vol. 2, No. 2, 1 March 1955, 13 pp. (Multi) *

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1. "Is Your Seminar Showing?" p. 1.
2. "Misinterpretation of Tropical Cyclone Reconnaissance Data," pp. 1-3.
3. "Strong Winds at Thule Air Base," pp. 3-4.
4. "Local Objective Forecasting Studies," pp. 4-6.
5. "Meteorological Articles in 'Flying Safety'," p. 6.
6. "Translations of Books on Snow Distributed," p. 6.
7. "Scientific Services Publications Program," p. 7.
8. "Change in Designation of Maximum and Minimum 1000-500mb Thickness Charts," p. 7.
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11. "AWS Participation in AMS National Meeting at New York," p. 9.
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15. "Gradient Wind Scales," pp. 11-13.

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3. "High-Altitude Meteorological Balloons," pp. 3-4.
4. "On the Use of Trajectories in Forecasting Heavy Precipitation," p. 4.
5. "18th Weather Squadron Technical Improvement Program," pp. 4-5.
6. "Gradient vs. Geostrophic Spacing," pp. 5-9.
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8. "Effect of Aircraft Exhaust on Airport Visibility," pp. 10-14.
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2. "Utilizing Weather Observations from Jets," pp. 1-2.
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4. "Objective Forecast Study Workshop Program," pp. 3-4.
5. "Numerical Weather-Prediction Activities," pp. 4-5.
6. "Are You Interested Enough?" p. 5.
7. "Field Technical Publications and Seminars," pp. 5-6.
8. "A Study of Easterly Waves in the Gulf of Mexico," p. 6.
9. "Diurnal Variations of Contour Height," p. 6.
10. "Project Wind Rider," p. 7.
11. "Determining True Altitude of Reconnaissance Aircraft," pp. 7-8.
12. "Utilization of Dropsonde Data," p. 8.
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14. "Utilization of Sferics Observations," p. 9.
15. "Recommended Reading," pp. 9-11.
16. "Scientific Services Publications Program," pp. 11-12.
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2. "Is Cloud Seeding Worthwhile?" p. 2.
3. "Numerical Weather Prediction," pp. 2-5.
4. "Project Cloud Trail," pp. 5-6.
5. "Turbulence Encountered in the Wake of Jet Aircraft," pp. 6-7.
6. "Objective Forecast Study Program," pp. 7-8.
7. "Technical Program in the 16th Squadron," p. 8.
8. "Temperature vs. Thickness Tables," p. 9.
9. "Curvature Consideration in Forecasting Upper-Air Wind Velocities," p. 10.
10. "Utilization of Weather-Reconnaissance Reports — Doppler Radio Winds," pp. 9-11.
11. "Investigation of Upper Wind Data," pp. 11-12.
12. "Balloon Trajectory Computing," p. 12.
13. "An Example of the Usefulness of 850-mb Height Reports for Surface Analyses Over Plateau Regions," pp. 12-16.
14. "Scientific Services Publications Program," pp. 16-17.
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17. "Sixth Alaskan Science Conference," p. 18.
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19. "Are You Preparing a Technical Study? — A Reminder," p. 20.
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2. "High-Altitude Photography of Weather Patterns," pp. 1-2.
3. "Announcement," p. 2.
4. "Presentation of the Losey Award," p. 2.
5. "Use of Forecasting Aids," p. 3.
6. "Processing of Data Requests for Objective Forecast Studies," p. 6.
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8. "Calendar of AMS National Meetings for Remainder of 1956," pp. 5-6.

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11. "Gradient-Wind Scale," pp. 8-9.
12. "Meteorological Balloons," pp. 9-10.
13. "On the Use of Radar in the Air Weather Service," p. 10.
14. "Weather-Radar Research," pp. 10-11.
15. "Specification of the Tropopause Height and Temperature from 500-mb Data," pp. 11-12.
16. "Spatial Wind Relationships in Northwest Florida," pp. 12-13.
17. "Study on Hail Formation," p. 13.
18. "An Attempt to Further Adapt Extended Forecast Section (USWB) to USAF Use," p. 13.
19. "New AWSR 5-3 — List of Publications Applicable to AWS Activities," p. 13.
20. "Technical Publications and Studies Recently Received from the Field," pp. 14-15.
21. "Ultrapolar Circulation Patterns," pp. 15-16.
22. "Ballistic Winds for Bombing," pp. 16-18.
23. "Scientific Services Publications Program," p. 18.
24. "Recommended Reading," pp. 18-20.
25. "The Use of JNWP Prognostic Charts," pp. 20-22.

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4. "Runway Temperature Observations — R.I.P.," pp. 3-4.
5. "Director of AWS Scientific Services is New AMS President," pp. 4-5.
6. "Forecasting Aircraft Icing," pp. 5-6.
7. "The Map-Analyst's Corner — 'Picking Daisies'," pp. 6-9.
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9. "Review of Objective Forecast Studies Received at Headquarters AWS," pp. 11-12.
10. "AF Award Presented to Director of JNWP," p. 13.
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4. "Use of AWS TR 105-100 for Short-Period Forecasting," p. 5.
5. "Air Weather Service Support of NACA Program," pp. 6-9.
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7. "Discussion of Forecast Wording," p. 10.
8. "Weather Refresher Training Program for Reserve Officers," p. 10.
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11. "Hints on Indexing and Filing Field 'Libraries'," pp. 13-14.
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20. "The Map-Analyst's Corner — 'Hop, Skip, and Jump'," pp. 26-28.

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5. "Accuracy of GMD-1A Wind Measurements," pp. 3-5.
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7. "Upper-Air Wind Information from Guided-Missile Ships," pp. 5-6.
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12. "A Comparison of Geostrophic, Gradient, and Observed (Rawin) Wind Speeds at 300, 200, and 150 mb," pp. 8-9.
13. "Isotachs Versus Contour Spacing," pp. 9-12.
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15. "Technical Publications and Studies Recently Received from the Field (not including local forecast studies)," pp. 12-13.
16. "Scientific Services Publications Program," pp. 13-16.
17. "Recommended Reading," pp. 17-19.
18. "The Map-Analyst's Corner — 'Fascinating Winds'," pp. 19-22.
19. "Scientific Services Director Presents Paper at AGARD Symposium in Oslo," p. 22.
20. "Recent Research (Contract) Reports Received (Notice No. 7)," pp. 23-26.

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4. "Hurricoons for Hurricanes," pp. 2-3.
5. "Satellites and the International Geophysical Year (IGY)," p. 3.
6. "Field Tests of the Ice-Fog Forecasting Technique," pp. 3-6.
7. "Objective Forecast Study Seminars (ZI)," p. 6.
8. "Qualitative Operational Requirement," pp. 6-7.
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14. "Non-AWS Publications Recently Distributed to AWS Activities," pp. 13-14.
15. "New AWSR 5-3 — List of Publications Applicable to AWS Activities," p. 14.
16. "Recent Research (Contract) Reports Received (Notice No. 8)," pp. 14-16.
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18. "Participation of AWS Personnel in Recent Scientific Meetings," p. 21.
19. "Calendar of National Meeting of American Meteorological Society," pp. 21-22.
20. "Caution — Low-Level Wind Shear," p. 22.
21. "Meeting of the Geophysical Research Panel, Scientific Advisory Board to the Chief of Staff, USAF," pp. 22-23.
22. "Recommended Reading," pp. 23-24.
23. "Intermittent Contrails," p. 24.

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AWS Scientific Services Newsletter, Vol. 4, No. 1, 31 January 1957, 24 pp. (Multi) *

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1. "More on Weather-Modification Experiments," pp. 1-2.
2. "Forecast Verification — JNWP vs NAWAC," pp. 2-3.
3. "Ninth Pacific Science Congress," pp. 3-4.
4. "Tropical Cyclone Symposium at Brisbane, Australia," p. 4.
5. "Non-Routine Use of Weather-Reconnaissance Data," pp. 4-5.
6. "Progress on the Smog Problem," p. 5.
7. "Objective Hurricane Forecasting Technique," p. 6.
8. "Canadian Meteorological Service to DEW Line Construction," pp. 6-7.
9. "Why Pilot Reports?" pp. 7-8.
10. "Elections and Awards at Annual AMS Meeting," p. 8.
11. "Preparing for Commercial Jet-Aircraft Service," pp. 8-9.
12. "Recent Research (Contract) Reports Received (Notice No. 9)," pp. 9-10.
13. "AWSSS Technical Publications Program," pp. 10-12.
14. "Technical Publications and Studies Recently Received from the Field (not including local forecast studies)," pp. 12-14.
15. "Non-AWS Publications Recently Distributed to AWS Activities," p. 14.
16. "The Map-Analyst's Corner — 'Significant Detail'," pp. 14-17.
17. "Subjective Modification of JNWP Forecasts," pp. 17-21.
18. "Professor Rossby Surveys Status and Future of Meteorology," pp. 21-22.
19. "Recommended Reading," pp. 22-24.

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6. "A Time-Saving Device for Vector Addition," p. 3.
7. "World Comparison of Radiosondes," pp. 3-4.
8. "Scientific Meeting Scheduled," p. 5.
9. "Progress on the National Hurricane Research Project," pp. 5-6.
10. "A Method for Estimating Wind Shear for High-Level Analyses," pp. 6-7.
11. "Wind Forecast Errors," p. 8.
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14. "AWSSS Technical Publications Program," pp. 12-14.
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9. "Professor Rossby Lectures on 'Radiation Balance and the Deep-Sea Circulation,'" pp. 9-10.
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11. "AWSSS Technical Publications Program," pp. 11-12.
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6. "Objective Forecast Study Program," pp. 4-6.
7. "2d Wing Tests Nomograms for Estimating Height of 200-mb Surface," p. 6.
8. "A.M.S. Issues Statements on Tornadoes and Weather Forecasting," pp. 6-8.
9. "Predictors for Objective-Forecast Studies," pp. 9-12.
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- "Technical Services Personnel and Climatologists Meeting in 2nd Wea Wg," p. 2.
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- "Climatological Fallout Patterns (CEPs)," pp. 10-11.
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"Climatological Research of Temperature Distribution," pp. 9-10.

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"New Signal Corps Mean Monthly Constant Pressure Charts," pp. 4-5.

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Oceanographic Newsletters:

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#2 July 1945, 11 pp. (Multi) *

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#4 September 1945, 9 pp. (Multi) *

#5 October 1945, 5 pp. (Ditto) *

#6 November-December, and January 1946, 10 pp. (Ditto) *

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(An Official Air Weather Service Publication)

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- Vol. 1, No. 1, June 1952, 5 pp. (Mimeogr) *
- Vol. 1, No. 2, August 1952, 7 pp. (Mimeogr) *
- Vol. 1, No. 3, October 1952, 9 pp. (Mimeogr) *
- Vol. 1, No. 4, November 1952, 7 pp. (Mimeogr) plus illus. *
- Vol. 1, No. 5, December 1952, 8 pp. (Mimeogr) *
- Vol. 2, No. 1, January 1953, 9 pp. (Multi) *
- Vol. 2, No. 2, February 1953, 9 pp. (Multi) *
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- Special Issue, January 1955, 13 pp. (Multi) *
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Weather Service as a Factor in Aircraft Accident	7.01	2	7	Jul	53
Judge and Jury	7.05	2	7	Jul	53
Reporting and Investigation of Aircraft Accidents.	11.01	2	11	Oct	53
Preliminary Reports of Major Aircraft Accidents.	12.18	2	12	Nov	53
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The Forecaster's Fatal Statement	8.13	3	8	Aug	54
Landing Short Accidents.	2.17	4	2	Feb	55
MATS Landing Accident.	3.24	4	3	Mar	55
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Accident Investigation Procedure	7.2	4	7	Jul	55
Accident Statistics.	7.17	4	7	Jul	55
Navigation and Navigational Aids as Accident Cause Factors.	9.18	4	9	Sep	55
Flying Hours Since Last Accident	12.15	4	12	Dec	55
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KC-97 Accident	6.16	5	5	Jun	56
C-47 Ground Accident	8.17	5	8	Aug	56
Weather Information Files. Topic B		Special		Oct	56
Fouled-Up Fueling.	11.11	5	11	Nov	56
C-124 Accident	12.28	5	12	Dec	56

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Study of an Aircraft Accident With Associated Weather Factors.		1	1	Jun	52
The Weather Factor in Aircraft Accidents	3.1	1	3	Oct	52
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Aircraft Accident Study: Briefing on Cloud Bases.	7.03	2	7	Jul	53
Aircraft Accident: Griffiss	7.04	2	7	Jul	53
Aircraft Accident — Use of TelAutograph	8.03	2	8	Aug	53
Aircraft Accident — Weather at Alternate.	8.04	2	8	Aug	53

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Weather Factors in Aircraft Accidents (Cont'd) .	5.01	3	5	May	54
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Info on Weather Factor Accidents	7.6	4	7	Jul	55
Weather Factor Accident.	9.2	4	9	Sep	55
New Manual	8.21	5	8	Aug	56
Weather Factor Aircraft Accidents.	9.4	5	9	Sep	56
Take-offs in Thunderstorms	9.12	5	9	Sep	56
Low-Level Wind Shear	12.1	5	12	Dec	56
Hail Damage Above 25,000 ft.	1.4	6	1	Jan	57
Factors in Aircraft Accidents.	3.15	6	3	Mar	57

Aircraft Accidents:

Review of 1952 Aircraft Accidents.	3.01	2	3	Mar	53
Accidental Release of Life Raft.	3.02	2	3	Mar	53
Our Aircraft Accidents	4.02	2	4	Apr	53
WB-29 Incident	6.06	2	6	Jun	53
Fuel Vapor Lock.	9.15	2	9	Sep	53
Major WB-29 Accidents.	11.13	2	11	Oct	53
C-47 Major Aircraft Accident	11.14	2	11	Oct	53
Inadequate Supervision In Flight	11.15	2	11	Oct	53
Explosive Decompression.	1.18	3	1	Jan	54
Dropsonde Incident	1.19	3	1	Jan	54
AWS Accident Rate.	2.14	3	2	Feb	54
Operational Hazard Reports	2.16	3	2	Feb	54
Wha Hoppened?.	3.10	3	3	Mar	54
TB-17 Major Accident	3.11	3	3	Mar	54
WB-29 Minor Aircraft Accident.	5.21	3	5	May	54
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WB-29 Minor Accident_During Check Out.	7.17	3	7	Jul	54
The Case of the Culprit Filling Station.	8.19	3	8	Aug	54
Smoke Got in Their Eyes.	8.20	3	8	Aug	54
Who Fractured the Oil Tank?.	8.21	3	8	Aug	54
C-54 Accident.	2.13	4	2	Feb	55

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Accident Statistics.	9.26	4	9	Sep	55
AWS C-45 Major Aircraft Accident	12.12	4	12	Dec	55
WB-29 Major Aircraft Accident.	2.15	5	2	Feb	56
WB-50 Major Aircraft Accident.	9.10	5	9	Sep	56
WB-50 Minor Accident — Crosswind Landing.	10.15	5	10	Oct	56

Analysis and Analyzing:

Coded Regional Map Analyses.	3.07	2	3	Mar	53
Use of Charcoal in Weather Chart Analysis.	6.17	2	6	Jun	53
Entries on Non-Display Weather Charts.	12.14	2	12	Nov	53
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Thunderstorms in the Great Plains.	7.05	3	7	Jul	54
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Accident Boards.	2.4	4	2	Feb	55
Map Check.	3.10	4	3	Mar	55
Hurricane Forecast Accuracy.	9.4	4	9	Sep	55
Gradient Wind Scales	1.5	6	1	Jan	57
Plastic Overlay, AWSPC 9-16B	2.5	6	2	Feb	57
Dropsonde Surface Pressures.	6.5	6	6	Jun	57
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1956 Hurricane Research Results.	6.8	6	6	Jun	57

Facsimile:

Plastic Coating for Facsimile Charts	5.5	1	5	Dec	52
AWS Policy on the Use of Facsimile	2.01	2	2	Feb	53
Are Your Fax Charts Loud and Clear?.	2.09	2	2	Feb	53
Changes in 1R2 Fax Schedule.	12.13	5	12	Dec	56

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Weather Briefing for Transport Flights	6.02	2	6	Jun	53
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Weather Briefing via Telephone	1.04	3	1	Jan	54
Briefing Void Time	2.02	3	2	Feb	54
Which Way to Go?	5.07	3	5	May	54
Weather Checked by Pilot	7.02	3	7	Jul	54
When Forecasting Thunderstorms, Give 'Em Hail.	8.09	3	8	Aug	54
Call Letters on Clearances	11.8	3	11	Nov	54
Check the Route.	11.12	3	11	Nov	54
VOR Routes	11.13	3	11	Nov	54
Interim Change to AFR 60-11.	11.19	3	11	Nov	54
Weather Data and Forecasts for Aircraft Clearances.	1.1	4	1	Jan	55
De-Briefings	1.6	4	1	Jan	55
Who's Who.	2.1	4	2	Feb	55
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Weather Briefings.	2.6	4	2	Feb	55
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Forecasts of Pressure Altitude and Temperature for Jet Departures	4.2	4	4	Apr	55
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Super-cooled Moisture and Jets	10.15	4	10	Oct	55
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Horizon Limited.	6.15	5	6	Jun	56
The Mountain Wave.	12.21	5	12	Dec	56
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Classification of Weather Entries on DD Form 175	7.4	6	7	Jul	57

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Superadiabatic Lapse Rates Near the Surface. . .	2.04	2	2	Feb	53
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Certifying Meteorological Technicians for Fore- casting and Briefing Duties.	4.10	2	4	Apr	53
Forecasting Hail Size.	5.10	2	5	May	53
Transmission of Stability Index.	5.11	2	5	May	53
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If Winter Comes.	8.01	2	8	Aug	53
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When Is a Forecaster Not a Forecaster?	4.03	3	4	Apr	54
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When Did That Front Pass?.	6.05	3	6	Jun	54
How High Is Hail?.	6.06	3	6	Jun	54
BLACK AREA-RED AREA.	6.14	3	6	Jun	54
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Radioactivity Fall-Out Plots	8.11	3	8	Aug	54
Check the 175.	8.14	3	8	Aug	54
Watch the Weather.	3.8	4	3	Mar	55
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A Photographic Visibility Check Point Diagram. .	5.3	1	5	Dec	52
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Can You Spot Weather Reconnaissance Reports? . .	1.03	2	1	Jan	53
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Decoding British Weather Reconnaissance Reports.	4.09	2	4	Apr	53
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SECTION P: AWS SPECIAL STUDIESAWS Special Studies

- SS-1 "Climate and Weather of Central East Asia Including the Japanese Islands," (Formerly AAF Wea Div. Report WD13, March 1944) 95 pp. (Mimeogr) plus figs. * (Rescinded April 1960)
- SS-2 "Fog and Low Ceiling Frequencies Along the U.S. Pacific Coast," prepared by Statistics Division, Weather Research Center, US Weather Bureau. (Formerly AAF Wea Div. Report WD 30 Rev. reprinted March 1944) 52 pp. (Lithopr) (ATI-84997) * (Rescinded April 1960)
- SS-3 "Climate and Weather as Related to Flight Conditions Along the West Coast of South America," (Formerly AAF Wea Div. Report WD 61, circa 1944) 93 pp. (Lithopr) * (Rescinded April 1960)
- SS-4 "Climate Charts for Alaska," (Formerly AAF Wea Div. Report WD 140, July 1942) (ATI-65135) * (Rescinded April 1960)
- SS-5 "Wind Factors Over the Pacific Ocean and Aircraft Soundings at Selected Terminals." (Formerly AAF Wea Div. Report WD 142, circa 1944) (Rescinded 15 June 1949)
- SS-6 "Climate Northern Africa." (Formerly AAF Wea Div. Report WD 169, circa 1944) (Rescinded May 1948)
- SS-7 "Hydrographic Data for Italian Streams." (Formerly AAF Wea Div. Report WD 221, circa 1944) (Rescinded May 1948)
- SS-8 "Wind Icing Conditions Throughout the World," prepared by AAF Statistics Division. (Formerly AAF Wea Div. Report WD 270, September 1943) 40 pp. incl. charts. (Lithopr) * (Rescinded April 1960)
- SS-9 "Meteorologic and Oceanographic Study of the Kurile Island Area." (Formerly AAF Wea Div. Report WD 394) (Typescr) (ATI-65131) (Rescinded April 1960)
- SS-10 "Some Freezing Level Data in the Neighborhood of the English Channel." (Formerly AAF Wea Div. Report WD 409, circa 1944) 31 pp. (Lithopr) * (Rescinded May 1948)
- SS-11 "Glaze and High Winds at Fairbanks, Alaska, and Nome, Alaska, 1936-1940." (Formerly AAF Wea Div. Report WD 411, May 1943) 7 pp. (Typescr) plus figs. * (ATI-65146) (Rescinded April 1960)
- SS-12 "Climatic Atlas for Alaska," prepared by the Climate and Crop Weather Division, USWB, for Hq AAF. (Formerly AAF Wea Div. Report WD 444, September 1943) 229 pp. (Lithopr) * (Rescinded April 1960)
- SS-13 "Climatology of Alaska." (Formerly AAF Wea Div. Report WD 318, October 1944) 61 pp. (Typescr) plus figs, tables. (ATI-73175) * (Rescinded April 1960)
- SS-14 "Stream Flow in Germany." (Formerly AAF Wea Div. Report WD 446, May 1944) 17 pp. (Ditto) plus figs. * (Rescinded May 1948)
- SS-15 "Storm Tracks and Intensities Over Southeast Asia," (Formerly AAF Wea Div. Report WD 454, June 1943) 2 pp. (Typescr) plus figs. * (Rescinded May 1948)
- SS-16 "Weather Conditions Affecting the Target Area of Indo-China, Thailand, Burma, Malay States, and Occupied Southern China." (Formerly AAF Wea Div. Report WD 473, November 1943) 10 pp. (Lithopr) * (ATI-93842) (Rescinded April 1960)

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- SS-17 "The Weather and Climate of Hokkaido." (Formerly AAF Wea Div. Report WD 479, November 1943) 24 pp. (Lithopr) (ATI-114518) * (Rescinded April 1960)
- SS-18 "Sunshine — Operated Stills and Rainfall as Sources of Water for Life Rafts." (Formerly AAF Wea Div. Report WD 493, September 1943) 6 pp. (Typescr) plus figs. (ATI-65150) * (Rescinded April 1960)
- SS-19 "The Weather and Climate of Formosa." (Formerly AAF Wea Div. Report WD 581, November 1943) 15 pp. (Lithopr) (ATI-85001) * (Rescinded April 1960)
- SS-20 "Weather and Climate of Tsushima Island and Surrounding Strait." (Formerly AAF Wea Div. Report WD 593, November 1943) 13 pp. (Lithopr) (ATI-84995)* (Rescinded April 1960)
- SS-21 "Occurrence of Wet Snow or Freezing Rain Over North America, November through March." (Formerly AAF Wea Div. Report WD 594, October 1943) 1 p. plus maps. (Typescr) (ATI-65124) * (Rescinded April 1960)
- SS-22 "Weather and Climate as Related to Military Operations in France." (Formerly AAF Wea Div. Report WD 644, April 1944) 148 pp. (Letterpress) (ATI-84768) * (Rescinded April 1960)
- SS-23 "Weather and Climate in Finland as Related to Military Operations." (Formerly AAF Wea Div. Report WD 645, July 1944) 174 pp. (Lithopr) (ATI-114290) * (Rescinded April 1960)
- SS-24 "Note on the Uses of the Charts Entitled 'Climatic Zones of the World'." (Formerly AAF Wea Div. Report WD 716, March 1944) 4 pp. (Mimeogr) (ATI-118128) * (Rescinded April 1960)
- SS-25 "Report on Activities of Army Air Forces Anti-Submarine Command." (Formerly AAF Wea Div. Report WD 718, March 1944) 14 pp. (Mimeogr) * (Rescinded April 1960)
- SS-26 "Frequency of Location of the Centers of Low Pressure Systems Over the North Atlantic Ocean." (Formerly AAF Wea Div. Report WD 738, April 1944) 13 pp. (Lithopr) (ATI-118261) * (Rescinded April 1960)
- SS-27 "Mean Monthly Tail Winds at 10,000 Feet on Various Air Routes Over the North Atlantic." (Formerly AAF Wea Div. Report WD 852, September 1944) 18 pp. (Lithopr) (ATI-84996) * (Rescinded April 1960)
- SS-28 "Average Monthly Wind Velocities on Routes from Hawaii to the West Coast." (Formerly AAF Wea Div. Report WD 909, March 1945) 39 pp. (Typescr) * (ATI-65122) (Rescinded April 1960)
- SS-29A "Percentage Frequency Distribution of Cloud Amounts Over Japanese Targets (Part One: Tokyo) — (Part Two: Osaka) — (Part Three: Nagasaki)." (Formerly AAF Wea Div. Report WD 912, June 1945) 18 pp. (ATI-84994) (Rescinded April 1960)
- SS-30 "Flying Conditions in Eastern Maine." (Formerly Directorate of Weather, AAF Wea Res. Center Report Vol. 2, No. 1, May 1942) 13 pp. (Letterpress)*(Rescinded June 1949)
- SS-31 "Climate and Weather of the West Coast of Africa and the Eastern Atlantic Islands." (Formerly AAF Wea Res. Center, Directorate of Weather Report Vol. 2, No. 3, May 1942) 40 pp. (Letterpress) * (Rescinded June 1949)

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- SS-32 "Flying Conditions Over the Southeastern Coast of Japan, the Sea of Japan, and the East China Sea." (Formerly AAF Wea Res. Center, Directorate of Weather Report Vol 2, No. 4, May 1942) 41 pp. (Letterpress) (ATI-85002)* (Rescinded April 1960)
- SS-33 "Preliminary Report on Climate and Weather of Northern-Western Europe." (Formerly AAF Wea Res. Center, Directorate of Weather Report Vol. 3, No. 1, June 1942) 72 pp. (Letterpress) (ATI-87322) * (Rescinded April 1960)
- SS-34 "Climate and Weather of the Asiatic Portion of the Union of Soviet Socialist Republics and Its Air Approaches." (Formerly AAF Wea Res. Center, Directorate of Weather, Vol. 3, No. 4, November 1942) 77 pp. (Letterpress) (ATI-85362) * (Rescinded)
- SS-35 "The English Channel, Part I: Oceanography." (Formerly AAF Directorate of Weather Report Vol. 4, No. 2, November 1942) 104 pp. (Letterpress); Part II: "Meteorology and Climatology." (Formerly AAF Wea Info Br Report Vol. 4, No. 2, September 1943) 75 pp. (Lithopr) * (Rescinded June 1949)
- SS-36 "Summary of the State of the Ice in the Arctic Seas During the Years 1935 to 1938." (Formerly AAF Wea Res. Center, Directorate of Weather Report Vol. 5, No. 2, June 1942) 35 pp. (Letterpress) (ATI-85360) * (Rescinded April 1960)
- SS-37A "Part I, Climate and Weather of Southeastern Asia, India, Burma and Southern China." (Formerly AAF Wea Res. Center, Directorate of Weather Report Vol. 5, No. 3, May 1942) 129 pp. (Letterpress) (ATI-85295) * (Rescinded April 1960)
- SS-37B "Part II, Climate and Weather of Southeastern Asia: Farther India and the Netherlands East Indies." (Formerly AAF Wea Info Br. Report Vol 5, No. 3, May 1942) 141 pp. (Lithopr) (ATI-85898) * (Rescinded April 1960)
- SS-38 "Climate and Weather of the British Isles." (Formerly AAF Wea Res. Center, Directorate of Weather Report Vol. 6, No. 2, November 1942) 126 pp. (Letterpress) (ATI-85363) * (Rescinded April 1960)
- SS-40 "Weather Conditions in the Marshall Islands with Special Emphasis on the Eniwetok Area," prepared by USWB, assisted by AWS, USAF, February 1948, 22 pp. (Lithopr) * (ATI-85157) (Rescinded April 1960)
- SS-41 "Raobs, Pibals, Rawins and Surface Weather Data at Eniwetok — March, April, May, June, 1945-1946," prepared by USWB, assisted by AWS, February 1948. (ATI-114279) (Rescinded April 1960)
- SS-42 "48-Hour Dispersion Diagrams, Eniwetok, March, April, May 1945-1946," prepared by USWB, assisted by AWS, February 1948. (ATI-114289) (Rescinded April 1960)
- SS-105-43 "Weather Conditions on a Northern and a Central Pacific Air Route," November 1950, 9 pp. (Multi) plus figs. * (ATI-114277) (Rescinded April 1960)
- SS-105-44 "Weather Conditions on a Southern Pacific Air Route, Travis AFB to Saigon, French Indo-China," April 1951, 10 pp. (Multi) plus figs. * (ATI-114273) (Rescinded April 1960)
- SS-105-45 "Weather Conditions on Three Arctic Air Routes," July 1951, 18 pp. plus figs. (Photostat) * (AD-126082) (Rescinded April 1960)
- SS-105-46 "Weather Conditions on a North Atlantic Air Route," July 1951, 8 pp. (Multi) plus figs. * (ATI-117026) (Rescinded April 1960)

SECTION P (Cont'd)AWS Special Studies (Cont'd)

- SS-105-47 "Weather Conditions on the Atlantic Air Route," March 1952, 15 pp.
(Lithopr) * (ATI-209846) (Rescinded April 1960)
- SS-48 "Weather Conditions on an Air Route from Westover AFB to Burtonwood RAF
Station," November 1952, 6 pp. (Multi) plus figs. * (ATI-205424)
(Rescinded April 1960)
- SS-105-49 "Weather Conditions on a North Atlantic Jet Air Route Dow AFB to
Goose Bay to Narsarssuak to Keflavik to various Bases in England,"
June 1953, 20 pp. (Lithopr) * (ATI-48312) (Rescinded April 1960)
- SS-58 "Climatology of the Arctic Regions Part I, Part II, and Part III,"
December 1946, 120 pp. (ATI-65130) * (Rescinded April 1960)

SECTION Q: AWS TRAINING GUIDESAWS Training Guides

- 50-1 "Weather Observer Training Program," January 1951, 34 pp. (Lithopr) *
(Superseded by AWSTG 50-1, May 1953)
- 50-1 "Weather Observer Training Program," May 1953, 30 pp. (Lithopr) *
- 50-2 "Ground Weather Equipment Operator," February 1951, 31 pp. (Lithopr) *
(Superseded by AWSTG 50-2 (Rev.) October 1952)
- 50-2(Rev) "Ground Weather Equipment Operator," October 1952, 28 pp. (Lithopr) *
(Rescinded 1955?)
- 50-2 "Film Directory," 1 January 1958, 8 pp. (Multi) * (Superseded
AWSR 50-3, February 1956) (Superseded by AWSTG 50-2, January 1961)
- + 50-2 "Film Directory," 3 January 1961, 13 pp. (Multi) * (Redesignated
AWSP 50-2, September 1961)
- 50-3 "Weather Forecaster and Weather Officer," February 1951, 50 pp.
(Lithopr) * (Superseded by AWSTG 50-3, August 1953)
- 50-3 "Weather Forecaster and Weather Officer," August 1953, 43 pp. (Lithopr)*
- + 50-3/1 "The Weather Forecaster, Part I," 1 June 1957, 27 pp. (Lithopr) *
(Redesignated AWSP 50-3/1, September 1961)
- + 50-3/2 "The Weather Forecaster, Part II," 1 October 1957, 19 pp. (Multi) *
(Redesignated AWSP 50-3/2, September 1961)
- 50-4 "Airborne Weather Equipment Operator," May 1953, 13 pp. (Lithopr) *
- + 50-4 "Standard Weather Presentation for Base Instrument Pilot Refresher
Program," 1 June 1958, 30 pp. (Lithopr) * (Redesignated AWSP 50-4,
September 1961)
- 50-5/1 "WB-50 Maintenance, Part I: Aircraft Mechanic," February 1959.
(Superseded by AWSTG 50-5/1, September 1960)
- + 50-5/1 "WB-50 Maintenance, Part I: Aircraft Mechanic AFSC 431X1," September
1960, 14 pp. (Lithopr) * (Redesignated AWSP 50-5/1, September 1961)
- 50-5/2 "WB-50 Maintenance, Part II: Propeller Mechanic," February 1959.
(Superseded by AWSTG 50-5/2, September 1960)
- + 50-5/2 "WB-50 Maintenance, Part II: Propeller Mechanic AFSC 421X1,"
1 September 1960, 4 pp. (Lithopr) * (Redesignated AWSP 50-5/2,
September 1961)
- 50-5/3 "WB-50 Maintenance, Part III: Aircraft Hydraulic Technician," February
1959. (Superseded by AWSTG 50-5/3, September 1960)
- + 50-5/3 "WB-50 Maintenance, Part III: Hydraulic Repairman, AFSC 421X2,"
September 1960, 4 pp. (Lithopr) * (Redesignated AWSP 50-5/3,
September 1961)
- + 50-5/4 "WB-50 Maintenance, Part IV: Engine Mechanic AFSC 432X1," 1 September
1960, 8 pp. (Lithopr) * (Redesignated AWSP 50-5/4, September 1961)
- + 50-5/5 "WB-50 Maintenance, Part V: Instrument Repairman AFSC 422X0,"
1 September 1960, 6 pp. (Lithopr) * (Redesignated AWSP 50-5/5,
September 1961)

SECTION Q (Cont'd)AWS Training Guides (Cont'd)

- + 50-5/6 "WB-50 Maintenance, Part VI: Ground Power and Equipment Repairman AFSC 421X3," 1 September 1960, 3 pp. (Lithopr) * (Redesignated AWSP 50-5/6, September 1961)
- + 50-5/7 "WB-50 Maintenance, Part VII: Electrical Repairman AFSC 423X0," 1 September 1960, 6 pp. (Lithopr) * (Redesignated AWSP 50-5/7, September 1961)
- + 50-5/8 "WB-50 Maintenance, Part VIII: Accessory Repairman AFSC 422X1," 1 September 1960, 3 pp. (Lithopr) * (Redesignated AWSP 50-5/8, September 1961)
- + 50-5/9 "WB-50 Maintenance, Part IX: Airframe Repairman AFSC 534X0," 1 September 1960, 3 pp. (Lithopr) * (Redesignated AWSP 50-5/9, September 1961)
- + 50-5/10 "WB-50 Electronics, Part X: Aircraft Radio Maintenance AFSC 301X0," 1 September 1960, 3 pp. (Lithopr) * (Redesignated AWSP 50-5/10, September 1961)
- + 50-5/11 "WB-50 Electronics, Part XI: Aircraft Electronic/Nav Equipment Maintenance AFSC 301X1," 1 September 1960, 6 pp. (Lithopr) * (Redesignated AWSP 50-5/11, September 1961)
- + 50-5/12 "WB-50 Electronics, Part XII: Weather Equipment Maintenance AFSC 302X0," 1 September 1960, 3 pp. (Lithopr) * (Redesignated AWSP 50-5/12, September 1961)
- 50-6 "Weather Equipment Technician," December 1951, 57 pp. (Lithopr) * (Superseded by AWSTG 50-6, April 1959)
- 50-6 "The Weather Observer," April 1959, 9 pp. (Lithopr) * (Redesignated AWSP 50-6, September 1961) (Rescinded 1962)
- 50-7 "Climatological Technician," 1 October 1953, 11 pp. (Lithopr) (AD-20570)
- 50-8 "Three Weather Training Courses for AACS Personnel," January 1954, 8 pp. (Lithopr) *
- 50-9 "On-the-Job Training," March 1956. (Superseded by AWSTG 50-9, April 1959)
- 50-9 "On-the-Job Training," April 1959, 6 pp. (Lithopr) * (Rescinded 1961)
- 50-9A (Rescinded 1961)
- + 50-10 "Military Climatology, a Weather Consultant Service," November 1956, 15 pp. (Letterpress) * (Redesignated AWSP 50-10, September 1961)

SECTION R: TECHNICAL MEMOS, AWS CLIMATIC CENTERItem No.

1. "Application of Multiple Regression Techniques to Climatological Extrapolation," Part I: "The Selective Determination of Parameters for Multiple Regression Equations," by Charles P. Wood, Tech Memo 58-1, Climatic Center, Det 3, 15 November 1958, 8 pp. (Multi) *
2. "Temperatures and Winds at 25-35 KM Over Russia in July 1957," by Adam Kochanski, Tech Memo 59-1, 31 January 1959, 29 pp. plus figs. (Lithopr) (AD-229831) *
3. "Estimates of Altitudes and Probabilities of Being Above All Clouds," by Irving Solomon, Climatic Center, Tech Memo 59-2, 11 August 1959, 20 pp. (Multi) * (Published in AWS TR 159)
4. "Probability of Fallout from Multiple Nuclear Detonations," by Capt Thomas D. Potter, Climatic Center, Tech Memo 59-3, 27 August 1959, 7 pp. incl. fig. (Multi) * (Published as AWS TR 162)
5. "A Survey of Upper Air Climatological Information Sources," by Roderick S. Quiroz, Climatic Center, Tech Memo 59-4, September 1959, 57 pp. (Multi) *
6. "Estimating Vertical Correlation of the Wind," by Adam Kochanski, Tech Memo 59-5, 8 September 1959, 22 pp. incl. figs. (Multi) * (AD-229831)

SECTION S: HQ AAF WEATHER DIVISION (Numbered Reports)

(Issued after transfer of Weather Division functions to Hqs AAF Weather Service)

(M) = available only in microfilm at USAF Climatic Center.

Hq AAF Weather DivisionReport No.

- 966 "Selected Translations from the Journal of the Meteorological Society of Japan," Second Series, August 1945, 157 pp. (Lithopr) *
- Contents:
- "Southerly Wind at Naze as an Indication of Coming Rain in Japan," by K. Hani, Vol. III, No. 4, 1925, pp. 96-102. Transl. by Pacific Military Intelligence, 1945, 5 pp. (ATI-116193)
- "The Characteristics of the Air Masses of Japan," by H. Arakawa, Vol. XIII, No. 9, 1935, pp. 7-22. Transl. by Military Intelligence 1945, 8 pp. (ATI-116196)
- "The Trough of Atmospheric Pressure Formed on the Pacific Coast of Japan Proper by NW-Wind," by T. Otani, Vol. XIII, No. 9, 1935, pp. 1-7. Transl. by Military Intelligence, 1945, 11 pp. (ATI-116197)
- "High Water Due to the Tidal Waves Propagated in Osaka Bay," by K. Terada, Vol. XIII, No. 9, 1935, pp. 28-33. Transl. by Military Intelligence, 1945, 8 pp. (ATI-116198)
- "Characteristics of the Air Masses in and Around Japan," by H. Arakawa, Vol. XIV, No. 7, 1935, pp. 6-16. Transl. by Military Intelligence, 1945, 26 pp. (ATI-116199)
- "On the Structure of the Extratropical Cyclone in the Far East," by H. Futi, et al., Vol. XVII, No. 9, 1939. Transl. by Military Intelligence, 1945, 28 pp. and reprinted as WD Report No. 474, I) (ATI-116200)
- "On the Development of Cyclones in the Neighborhood of Japan," by S. Ooma, Vol. XVII, No. 9, 1939, pp. 14-24. Transl. by Military Intelligence, 1945, 24 pp. and reprinted as WD Report No. 474, II) (ATI-116201)
- "On the Three Principal Air Masses in Japan and Its Neighborhood," by T. Yamanaka and C. Ikeda, Vol. XVII, No. 11, 1939, pp. 36-39. Transl. by Military Intelligence 1945, 10 pp. and reprinted as WD Report No. 474, III) (ATI-116202)
- "Studies Concerning the Development of the Moderate Cyclone in and Around Japan," by S. Ooma and M. Utugi, Vol. XVIII, No. 8, 1940, pp. 1-14. Transl. by Military Intelligence 1945, 30 pp. (ATI-116203)
- 971 "Forecasting Tops of Non-Frontal Cumulus Clouds in Polar-Air Outbreaks over the North Atlantic," 6 pp. prepared by AAF Research Weather Station, Mass. Inst. of Tech., September 1945; "Part I: Recommended Field Procedure in Forecasting Elevation of Tops of Non-Frontal Cumulus Clouds Formed over the North Atlantic During Polar-Air Outbreaks," prepared by Weather Central Division, September 1945, 3 pp. "Part II: A Method for Forecasting the Elevation of Tops of Non-Frontal Cumulus Clouds Formed over the North Atlantic During Polar-Air Outbreaks," prepared by Weather Central Division, September 1945, 40 pp. (Lithopr) * (Redesignated AWS TR 105-17) (ATI-72846)
- 972 "Universal Tables for Reduction of Pressure to Sea Level," June 1945, 22 pp. (Mimeogr) *
- 982 "Local Winds, Part I: Mountain and Valley Winds; Part II: Land and Sea Breezes," prepared by Army Service Forces, Signal Corps Ground Signal Agency, Dugway Proving Ground. (Reprinted by Weather Division, February 1945) 45 pp. (Letterpress) *

SECTION S (Cont'd)Hq AAF Weather Division (Cont'd)Report No.

- 911 "Frequency of Days Favorable for Record-Making West-East Cross Country Flight." (Typescr) (M)
- 922 "Atlas of Seasonal Charts Showing the Energy Exchange Between Sea and Atmosphere Over the North Pacific and North Atlantic Oceans," by W. C. Jacobs. (Published in Scripps Inst. of Ocean. Bull., Vol. 6, No. 2, 1951, pp. 27-122) (M)
- 993 "The Intensity of Solar Radiation at Levels up to 70,000 Feet," by W. H. Klein, (June 1945?) (Published in Journ. of Met., Vol. 5, No. 4, August 1948, pp. 119-129) *
- 994 "Bibliography on Chemistry of Precipitation," September 1945, 3 pp. (Redesignated AWS Bibliography No. 2) (Typescr) (ATI-91598) *
- 999 "Japanese Empire Study." (M)

AAF Weather Service, Weather Central Division Reports, 1000-Series (Continuation of former AAF Weather Division Report Series)Monthly Weather Information Bulletins (1945) (M):

- 1000-1 January
- 1000-2 February
- 1000-3 March
- 1000-4 April
- 1000-5 May
- 1000-6 June
- 1000-7 July
- 1000-8 August
- 1000-9 September
- 1000-10 October
- 1001 "Relationship of Surface Wind Direction at Chichi Jima and Cloud Cover at Eight Selected Cities in Japan," (Typescr) (M)
- 1002 "Areas in the United States Where Air-Conditioning of Airplanes is Most Needed," (Typescr) (M)
- 1007 "The Weather Factor in Strategic and Tactical Bombing of Certain Targets in Europe and Asia," (Typescr) (M)

30 April 1962

AWSP 0-18/1



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HEADQUARTERS AIR FORCE WEATHER AGENCY
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MEMORANDUM FOR Defense Technical Information Center

NOV 26 2013

SUBJECT: FOIA Release Determination for DTIC-R (FOIA 2013-177)

Reference: FOIA Request from Mr. Michael A. Hamilton (attachment 1)

The Air Force Weather Agency (AFWA) received a request, to review documents, from the Defense Technical Information Center (DTIC) FOIA Program Manager, to make a release determination and direct response to the requester and your office.

A review was conducted by the AFWA Historian, Mr. Donald May and it was determined that the document, entitled, "*Bibliography of Documents Prepared or Published by Headquarters Air Weather Service July 1945-April 1962*", did not meet any categories for exclusion and is fully releasable to the requester and the public. We have notified the requester of this determination and provided an electronic copy to him (attachment 2).

If you have any questions, please contact our office at (402) 294-5828 or via email at afwaa6wk@offutt.af.mil. Please reference FOIA case 2014-01161-F, when making inquiries.

A handwritten signature in black ink, appearing to read "Cheryl Hunter", is positioned above the typed name.

CHERYL HUNTER, SSgt, USAF
FOIA Program Manager

Attachments:
As Stated